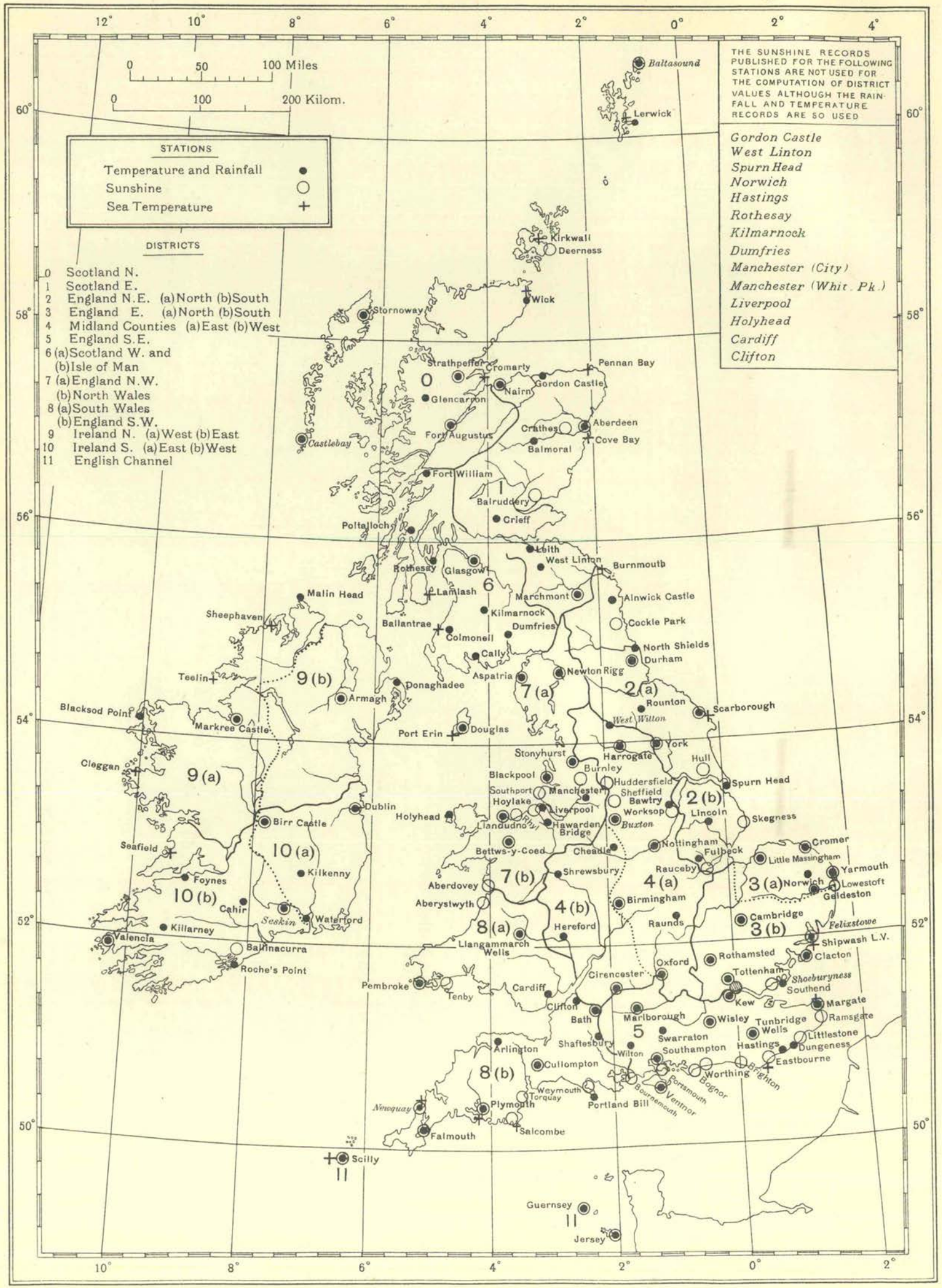
Comm. Hepworth

N-1913

WEEKLY WEATHER REPORT, MAP SHOWING DISTRICTS AND DISTRICT STATIONS, DECEMBER 1913.



Scale 1: 5,000,000.

Ordnance Survey, Southampton, 1914.

FOR OFFICIAL USE.

M.O. 214b. a1.

THE METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1913.

PART I.

METEOROLOGICAL OFFICE
24 JUN. 1915
C

THE

WEEKLY WEATHER REPORT

(VOL. XXX.—NEW SERIES).

SECTION 1.—Particulars of Temperature, Rainfall and Bright Sunshine for each week, with quarterly and annual summaries, and an annual table of weekly and progressive values—also an annual summary of wind force and a special climatological supplement giving normals for stations in the British Isles.

Published by the Authority of the Meteorological Committee.

LONDON:
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1914.

P.A.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1913, PARTS I. & II.

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Issued as a Supplement to the Weekly Weather Report and forming Part II. of the British Meteorological and Magnetic Year Book.

FRONTISPIECE MAP SHOWING THE POSITIONS OF STATIONS INCLUDED IN THE MONTHLY WEATHER REPORT.

PREFACE, LIST OF STATIONS AND NAMES OF VOLUNTARY OBSERVERS.

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MONTHLY WEATHER REPORTS.

ANNUAL SUMMARY.

PREFACE.

The Weekly Weather Report was issued during 1913 in the same form as in the preceding year. It may be noted, however, that the area covered by the maps issued with the Report was considerably enlarged at the beginning of 1913. These maps are intended to be bound as a separate section. Notes concerning them will be found in the appropriate preface.

The general arrangement of the weekly issues of the Report itself is as follows :—

I*a*. General Remarks.
b. Character of the Week and the Season.
II. Weekly Summary of temperature ; including temperature on the grass and in the ground, rainfall and sunshine, arranged under **Stations.**
III. Temperature of the Sea.
IV. Weekly, Seasonal, and Annual Summaries, arranged under **Districts.**

I*a*. The **GENERAL REMARKS** give an account in ordinary language of the weather of the week.

I*b*. The character of the week as regards warmth, rainfall, and sunshine in each district is set out in tabular form. The code used is explained on the third page of each weekly issue of the report. It may be summarised thus :—

CODE FOR WEATHER CHARACTER.

Frequency.	Warmth.	Rainfall.	Sunshine.
1 year in 3 { 1 in 12	Very Unusual.	Very Heavy.	Very Abundant.
1 year in 3 { 1 in 4	Unusual.	Heavy.	Abundant.
1 year in 3	Moderate.	Moderate.	Moderate.
1 year in 3 { 1 in 4	Deficient.	Light.	Scanty.
1 year in 3 { 1 in 12	Very Deficient.	Very Light.	Very Scanty.

The observations on which the estimates of frequency are based cover the period 1881–1905. An account of the methods of determining the limits of the various classes is given in a paper by R. G. K. Lempfert : "A New Method of Treating Meteorological Statistics." Journal of the Board of Agriculture, Vol. XIV., No. 1, April, 1907. More details will be given in the Report on the Seasons of the British Isles which is now in preparation.

The meteorological character of the current season and of the last four completed seasons is summarised in a table giving for each season the number of occasions on which the warmth, rainfall, and sunshine for a week were outside the limits of the moderate class on one side or the other.

II. **WEEKLY SUMMARY FOR STATIONS.**—This Table contains the data from which the district averages in Table IV. and the characters in Table I*b*. are found. Results from some stations are included although they are not used for the calculation of district averages. Such stations are shown in italics. It should be noted that the District Value Stations for temperature and rainfall and for sunshine, are not in all cases identical.

The Table also includes the lowest temperatures reached on the grass during the week and the number of times when ground frost (defined for this purpose as a temperature of 30° or lower) occurred at each station. The mean temperatures in the ground at depth of 1 foot and 4 feet are given where possible.

III. **SEA TEMPERATURE.**—This Table, which has been included since the commencement of 1907, gives the mean temperature of the surface of the sea, at a selection of stations on the coast of the British Islands, with the highest and lowest readings. A column showing the differences from the average of the mean values for the week has been included since the beginning of 1912.

The Summary for the year will be found on the last page of this Preface.

IV. **WEEKLY SUMMARY FOR DISTRICTS.**—The Tabular Summary on the fourth page of each Report gives for the week and for each district :—

TEMPERATURE.—The highest and lowest observed, the mean maximum, the mean minimum, the mean temperature, and its difference from the average for the corresponding period. The values for "accumulated temperature" above 42°F. and below 42°F. for the week and for the periods from the beginning of the season and of the year, and the differences from the average values for the corresponding periods. The averages* are derived from observations extending over the 25 years, 1881–1905. (The terms mean temperature and accumulated temperature are explained below.)

RAINFALL.—The total fall and the number of rain-days for the week, and for the part of the season and year to date, together with the differences from average* for the corresponding periods based on observations from 1881–1905.

* For particulars of the method of computing average values for districts, *see* Preface to the Weekly Weather Report for 1907.

(2334—19.) Wt. 229—611. 450. 10/14. D & S. G. 17/ 40.

BRIGHT SUNSHINE.—The daily mean of the number of hours of bright sunshine as recorded by the Campbell-Stokes instrument; the same mean expressed as a percentage of the whole time during which the sun was above the horizon each day; also the progressive values reckoned from the commencement of the season and of the year, together with the differences between these values and the averages* for the corresponding periods in the 25 years 1881–1905.

APPENDICES.

Appendix I. shows for each quarter and for the whole year (1) the number of rain-days, (2) the total rainfall and its percentage of the average, (3) the mean temperature and its difference from the average, (4) the duration of bright sunshine and its percentage of the average. Figures are given for each of the six lustra in the period 1881–1910, and for the years 1911, 1912, 1913. The averages are computed in each case for the 30 years 1881–1910. In years previous to 1911 the values (1), (2), (3), (4) were given for each individual year of the period since 1878.

Appendix II., the résumé of weekly values for districts, is published in the same form as in previous years.

Appendix III. is a summary of Records of Wind derived from Self-recording Anemographs. The values of velocity are given in metres per second, the corresponding values in miles per hour being added in certain of the tables. The order of the tables has been modified this year and a new table showing for six stations the number of hours during which the mean hourly velocity of the wind from different directions came within the limits assigned for the several numbers of the Beaufort Scale has been included for the first time.

Appendix IV. is a special climatological supplement giving the normal values for each month—for temperature based on 35 and 40 years' observations at 135 stations, for rainfall on 35 and 40 years' observations at 155 stations, and for sunshine on 30 years at 66 stations. This Appendix is illustrated by 52 maps which show the normal distribution of maximum temperature, minimum temperature, rainfall and sunshine for each month and for the whole year.

STATIONS AND DISTRICTS.

The stations used in the preparation of the Report are shown in the Frontispiece Map. Particulars of their altitudes, etc., will be found in the introduction to the Monthly Weather Report.

Some additions and alterations on the list may be noted.

District 5.

The Rev. W. L. W. Eyre, who had maintained his meteorological station for 33 years, having been compelled by ill-health to suspend his observations, the record for Swarraton was discontinued after the 12th week ending March 22nd.

The place of Swarraton as a District Value Station was taken by Wilton, near Salisbury, a station which has been represented in the Monthly Weather Report since 1907.

By the death of Dr. F. G. Smart, for many years observer at Tunbridge Wells, the science of Meteorology has lost a valuable supporter. From April 12th to the end of the year no observations for Tunbridge Wells were reported. The station has, however, been restarted under the auspices of the Corporation. District values for the last half of the year 1913 and the first half of 1914 were calculated from observations at nine stations.

District 10.

Seskin (Carrick-on-Suir), a new station, commenced with the 35th week of 1913.

DEFINITIONS OF MEAN TEMPERATURE AND ACCUMULATED TEMPERATURE.

Daily Mean Temperature.

The true mean temperature for each day is not recorded at the majority of stations, and the mean is, therefore, estimated from the maximum and minimum temperatures for the day. The way in which these temperatures were correlated was found by General Strachey from a discussion of the records at Greenwich and the First Order Observatories of the Meteorological Office, and the following rule proposed by him has been adopted since 1884. (*See* Quarterly Weather Report, 1878, Appendix II.)

The approximate Mean Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month (shown in the following Table), and adding the product to the mean of the minima :—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example:

The mean maximum temperature for a week in December being ...	48°·1
The mean minimum	39°·3
The difference is	8°·8

This difference 8·8 × ·520 (the coefficient for December) = 4·6.

This value when added to the mean minimum (39·3) gives 43°·9, the required mean temperature of the week.

* For particulars of the method of computing average values for districts, *see* Preface to the Weekly Weather Report for 1907.

Accumulated Temperature.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. For *Districts*, cumulative values for the whole period since the commencement of the season and the year are published in addition to the values for each week. The base temperature adopted is 42° F., as being nearly equivalent to 6° C. This has been considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in "Day-degrees,"—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature of the day gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878; with slight modification of the numerical co-efficients the rules may be applied to any other base temperature as well as to 42° F.

Rules for computing, for a Weekly Period, from the observed Maxima and Minima, the Accumulated Temperature above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply :—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F.	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the coefficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the coefficient 0·4.	From the difference between the mean for the day and the minimum, deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F. or *equal* to 42° F.	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the *average daily* value, and must be multiplied by 7 in order to obtain the value for the whole week.

THE BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK.

For the convenience of libraries and others the various serial statistical publications of the Meteorological Office have been grouped together under the general title "British Meteorological and Magnetic Year Book."

The other parts are as follows :—

Part II.—Monthly Weather Report. Issued monthly on the 27th of each month, with an annual summary, as a supplement to the Weekly Weather Report. Price 6*d.* each issue.

Part III.—Section 1. Daily readings at stations of the First and Second Orders. Issued in Monthly Parts within about five weeks of the close of each month. Price 1*s.* each part.

Section 2 The Geophysical Journal of the Observatories of the Meteorological Office. Issued in Monthly Parts. Price 4*d.* each part.

Part IV.—Section 1. Hourly Values from Autographic Records—Meteorological Section. Obtained from Self-recording instruments at three Observatories. Issued in monthly parts for each Observatory Price 6*d.* each part.

Section 2. Hourly Values from Autographic Records—Geophysical Section. Published with an Introduction and Summary at the end of each year.

Meteorological Office,
London, S.W.
31st August, 1914.

WEEKLY WEATHER REPORT.

CORRECTIONS AND ADDITIONS FOR 1913.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	TEMPERATURE. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the week from Average.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	RAINFALL. No. of Rain-days.	Rainfall in the Week.	Difference from the Average.	BRIGHT SUNSHINE. Hours per Day. Daily Mean.	Difference from the Average.	Percentage of possible duration.	Difference from the Average.	TEMPERATURE ON GRASS. No. of obs. 30° or below.	Lowest Reading.	EARTH TEMPERATURE. 1 foot. Mean for week.	1 foot. Difference from Average.	4 feet. Mean for week.	4 feet. Difference from Average.
District Values, Corrections.		°		°		°	°	°	°	Day-deg.	Day-deg.		Ins.	Ins.	Hrs.	Hrs.	%	%		°	°	°	°	°
No. 1, p. 4 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	2·07	+0·98	—	—	—	—	—	—	—	—	—	—
No. 1, p. 4 ..	2. England, N.E. ..	—	—	—	—	—	—	—	—	—	—	—	0·35	−0·07	0·9	−0·2	12	− 2	—	—	—	—	—	—
No. 2, p. 8 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	0·6	−0·2	9	− 3	—	—	—	—	—	—
No. 2, p. 8 ..	10. Ireland, S. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	0·6	−0·9	8	−12	—	—	—	—	—	—
No. 3, p. 12 ..	7. England, N.W. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	1·9	+0·7	25	+ 9	—	—	—	—	—	—
No. 4, p. 16 ..	9. Ireland, N. ..	—	—	—	—	—	—	—	—	—	—	6	1·32	+0·51	—	—	—	—	—	—	—	—	—	—
No. 6, p. 24 ..	4. Midland Counties	—	—	—	—	—	—	—	—	—	—	—	—	—	1·2	−0·9	14	−10	—	—	—	—	—	—
No. 8, p. 32 ..	5. England, S.E. ..	—	—	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 9, p. 36 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	0·9	−1·5	9	−15	—	—	—	—	—	—
No. 9, p. 36 ..	2. England, N.E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	1·3	−1·7	12	−16	—	—	—	—	—	—
No. 12, p. 48 ..	0. Scotland, N. ..	—	—	—	—	41·6	30·9	36·1	−3·9	—	41	—	1·37	+0·34	2·7	−0·6	22	− 5	—	—	—	—	—	—
No. 12, p. 48 ..	3. England, E. ..	—	—	—	—	—	—	—	—	—	—	—	0·93	+0·56	—	—	—	—	—	—	—	—	—	—
No. 14, p. 56 ..	0. Scotland, N. ..	—	—	—	—	50·2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—
No. 16, p. 64 ..	5. England, S.E. ..	—	—	23	—	—	—	—	—	—	—	—	0·67	+0·27	—	—	—	—	—	—	—	—	—	—
No. 17, p. 68 ..	4. Midland Counties	—	—	34	—	58·6	41·1	49·4	+2·1	—	—	—	—	—	—	—	—	—	—	3	—	—	—	—
No. 18, p. 72 ..	1. Scotland, E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	5·1	−0·2	34	− 2	—	—	—	—	—	—
No. 18, p. 72 ..	9. Ireland, N. ..	—	—	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 20, p. 80 ..	7. England, N.W. ..	—	—	30	—	—	—	—	—	—	—	—	0·24	−0·26	—	—	—	—	—	—	—	—	—	—
No. 23, p. 92 ..	0. Scotland, N. ..	—	—	41	—	58·8	—	52·7	+1·4	75	—	—	1·54	+0·98	3·6	−2·1	21	−12	—	—	—	—	—	—
No. 24, p. 96 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	1·73	+1·11	—	—	—	—	—	—	—	—	—	—
No. 27, p. 108 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	3·7	−0·7	21	− 4	—	—	—	—	—	—
No. 28, p. 112 ..	3. England, E. ..	—	—	—	—	—	—	—	—	—	—	—	0·18	−0·34	—	—	—	—	—	—	—	—	—	—
No. 29, p. 116 ..	6. Scotland, W. ..	—	—	44	—	—	—	—	—	—	—	—	0·44	−0·38	—	—	—	—	—	—	—	—	—	—
No. 30, p. 120 ..	1. Scotland, E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	5·8	+0·8	35	+ 5	—	—	—	—	—	—
No. 31, p. 124 ..	0. Scotland, N. .. Season (Summer).	—	—	—	—	—	—	—	—	—	—	—	—	−1·31	—	—	—	—	—	—	—	—	—	—
No. 32, p. 128 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	0·11	−0·82	—	—	—	—	—	—	—	—	—	—
No. 33, p. 132 ..	0. Scotland, N. ..	—	—	—	—	61·9	49·3	55·2	+0·4	92	—	—	—	—	2·7	−1·2	18	− 8	—	—	—	—	—	—
No. 34, p. 136 ..	10. Ireland, S. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	6·0	+1·1	42	+ 8	—	—	—	—	—	—
No. 36, p. 144 ..	3. England, E. ..	—	—	—	—	—	—	—	—	—	—	—	0·72	+0·24	—	—	—	—	—	—	—	—	—	—
No. 38, p. 152	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	0·9	−2·4	7	−19	—	—	—	—	—	—
No. 38, p. 152 ..	8. England, S.W. ..	66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 40, p. 160 ..	1. Scotland, E. ..	—	—	32	—	—	—	—	—	—	—	—	0·11	−0·65	—	—	—	—	—	—	—	—	—	—
No. 41, p. 164 ..	11. English Channel	—	—	—	—	—	—	—	—	—	—	—	—	—	5·8	+1·5	53	+14	—	—	—	—	—	—
No. 43, p. 172 ..	4. Midland Counties	—	—	24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 43, p. 172 ..	5. England, S.E. ..	—	—	—	—	—	—	—	—	—	—	—	0·77	0·00	—	—	—	—	—	—	—	—	—	—
No. 44, p. 176 ..	7. England, N.W. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	2·7	+0·6	29	+ 7	—	—	—	—	—	—
No. 47, p. 188 ..	7. England, N.W. ..	65	—	—	—	—	—	—	—	—	—	—	1·41	+0·62	—	—	—	—	—	—	—	—	—	—
No. 48, p. 192 ..	1. Scotland, E. ..	—	—	—	—	—	—	—	—	—	—	—	0·38	−0·31	—	—	—	—	—	—	—	—	—	—
No. 48, p. 192 ..	5. England, S.E. ..	—	—	—	—	—	—	—	—	—	—	—	0·06	−0·58	—	—	—	—	—	—	—	—	—	—
No. 50, p. 200 ..	8. England, S.W. ..	—	—	—	—	—	—	—	—	—	—	—	0·26	−0·80	—	—	—	—	—	—	—	—	—	—
No. 50, p. 200 ..	10. Ireland, S. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	0·8	—	—	—	—	—	—	—	—	—
No. 51, p. 204 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	1·21	+0·01	—	—	—	—	—	—	—	—	—	—
No. 51, p. 204 ..	1. Scotland, E. ..	—	—	—	—	—	—	—	—	—	—	—	0·27	−0·30	—	—	—	—	—	—	—	—	—	—
No. 52, p. 208 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	1·76	+0·62	—	—	—	—	—	—	—	—	—	—
Station Values, Additions.																								
No. 1, p. 2 ..	Glencarron .. S	50	31st	33	29th	46·5	36·0	41·5	+4·7	13	26	7	3·40	+1·06	—	—	—	—	—	—	—	—	—	—
No. 1, p. 2 ..	Durham	49	31st	33	29, 2	45·4	37·3	41·5	+4·1	10	20	4	0·12	−0·27	0·3	−1·1	4	−15	2	26	—	—	—	—
No. 2, p. 6 ..	Glencarron .. S	55	8th	34	6th	48·3	38·1	43·4	+6·7	26	11	4	0·72	−1·60	—	—	—	—	—	—	—	—	—	—
No. 2, p. 7 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	0·9	—	11	—	—	—	—	—	—	—
No. 3, p. 10 ..	Castlebay	46	18th	34	12, 13, 14	42·9	37·0	40·1	−1·0	3	19	5	0·91	—	0·2	—	3	—	—	—	—	—	—	—
No. 3, p. 10 ..	Bournemouth ..	—	—	—	—	—	—	—	—	—	—	—	—	—	3·0	—	36	—	—	—	42·0	—	45·3	—
No. 3, p. 10 ..	Blackpool	45	18th	23	13, 14	38·9	29·7	34·5	−4·2	0	53	3	0·47	−0·14	1·0	−0·2	13	− 3	7	16	39·4	—	45·6	—
No. 3, p. 11 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	1·4	—	17	—	—	—	—	—	—	—
No. 4, p. 14 ..	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	1·0	—	12	—	—	—	—	—	—	—
No. 6, p. 23 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	0·9	—	10	—	—	—	—	—	—	—
No. 10, p. 38 ..	Marlborough	—	—	—	—	—	—	—	—	—	—	—	—	—	3·1	+0·2	28	+ 2	—	—	—	—	—	—
No. 10, p. 38 ..	Brighton	—	—	—	—	—	—	—	—	—	—	—	—	—	3·8	+0·1	34	+ 1	1	30	—	—	43·1	—
No. 12, p. 46 ..	Strathpeffer	51	22nd	28	18th	44·6	30·4	37·3	−2·0	7	41	7	0·51	−0·07	3·3	+0·2	28	+ 1	—	—	—	—	—	—
No. 12, p. 46 ..	Marlborough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46·3	—
No. 15, p. 58 ..	Marlborough ..	52	6, 10, 11.	32	8th	48·7	37·0	42·6	−1·5	25	14	2	0·39	−0·08	2·5	−2·0	19	−15	1	27	—	—	47·0	—
No. 15, p. 58 ..	Manchester (Whit. Pk.).	53	8th	34	11th	47·7	38·6	42·9	−2·5	21	10	3	0·62	+0·17	1·6	−1·8	12	−13	—	—	—	—	—	—
No. 16, p. 62 ..	Marlborough ..	53	15, 16	23	13th	50·4	35·4	42·5	−3·2	31	18	5	1·32	+0·87	3·2	−1·6	23	−12	3	20	—	—	47·0	—
No. 16, p. 62 ..	Bettws-y-Coed ..	53	13th	30	13th	50·4	39·0	44·4	−2·0	29	8	6	2·70	—	4·6	—	33	—	1	30	44·6	−0·3	45·3	+0·6
No. 16, p. 62 ..	Aberdovey	—	—	—	—	—	—	—	—	—	—	—	—	—	4·1	—	30	—	—	—	—	—	—	—
No. 17, p. 66 ..	Norwich	65	22nd	34	24th	60·1	38·9	49·0	+2·5	62	9	3	0·17	—	—	—	—	—	2	29	—	—	—	—

WEEKLY WEATHER REPORT.

CORRECTIONS AND ADDITIONS FOR 1913.

Number and Page of Report.	Numbers of Districts and Names of Stations.	TEMPERATURE. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the week from Average.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	RAINFALL. No. of Rain-days.	Rainfall in the week.	Difference from the Average.	BRIGHT SUNSHINE. Hours per Day. Daily Mean.	Difference from the Average.	Percentage of possible duration.	Difference from the Average.	TEMPERATURE ON GRASS. No. of obs. 30° or below.	Lowest Reading.	EARTH TEMPERATURE. 1 foot. Mean for week.	1 foot. Difference from Average.	4 feet. Mean for week.	4 feet. Difference from Average.
Station Values, Additions.		°		°		°	°	°	°	Day-deg.	Day-deg		Ins.	Ins.	Hrs.	Hrs.	%	%		°	°	°	°	°
No. 17, p. 66 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50·6	+2·5	—	—
No. 18, p. 70 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	3·7	—	24	—	—	—	—	—	—	—
No. 18, p. 71 ..	Shaftesbury	57	2nd	36	27th	53·3	40·3	46·5	-1·6	39	5	5	1·22	+0·72	—	—	—	—	—	—	49·1	—	47·7	—
No. 18, p. 71 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	5·1	—	35	—	—	—	—	—	—	—
No. 19, p. 74 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50·3	-2·4	49·7	-0·1
No. 20, p. 78 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53·4	-1·5	50·3	-1·1
No. 20, p. 78 ..	Bettws-y-Coed ..	66	13th	36	11th	59·9	41·6	50·2	-0·8	59	1	1	0·07	—	4·5	—	29	—	0	35	49·4	-1·4	46·6	-1·1
No. 22, p. 86 ..	Bettws-y-Coed ..	66	27th	44	31st	64·0	50·0	56·6	+3·7	102	0	3	0·26	—	6·7	—	41	—	0	40	54·3	+0·3	49·6	-0·2
No. 23, p. 90 ..	Strathpeffer	74	4th	41	2nd	63·9	47·4	55·1	+3·3	92	0	4	0·71	+0·28	4·5	-0·9	26	- 5	—	—	—	—	—	—
No. 23, p. 90 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59·1	-0·4	55·0	-0·2
No. 23, p. 90 ..	Bettws-y-Coed ..	71	4th	40	1, 2	65·6	46·9	55·6	+1·2	95	0	4	1·05	—	7·9	—	48	—	0	40	54·9	-0·3	51·9	+1·1
No. 24, p. 94 ..	Glencarron .. S	62	13th	40	10th	54·1	43·9	48·6	-3·4	46	0	6	4·07	+3·13	—	—	—	—	—	—	—	—	—	—
No. 24, p. 94 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57·8	-2·4	55·5	-0·7
No. 25, p. 98 ..	Bettws-y-Coed ..	80	16th	50	15th	70·9	53·0	61·3	+4·3	135	0	1	0·11	—	5·8	—	35	—	0	45	57·7	+2·4	51·9	-0·3
No. 26, p. 102 ..	Brighton	—	—	—	—	—	—	—	—	—	—	—	—	—	6·8	-0·6	42	- 4	0	43	—	—	58·6	—
No. 26, p. 102 ..	Bettws-y-Coed ..	68	28th	45	24th	63·7	48·9	55·8	-2·1	97	0	2	0·33	—	3·6	—	22	—	0	48	55·9	+0·7	53·3	+0·8
No. 26, p. 103 ..	Rhyl	—	—	—	—	—	—	—	—	—	—	—	—	—	3·5	—	21	—	—	—	—	—	—	—
No. 28, p. 110 ..	Little Massingham ..	72	12th	44	8th	64·6	46·6	55·0	-4·9	91	0	3	0·07	-0·52	4·8	-1·7	29	-11	0	43	—	—	—	—
No. 28, p. 110 ..	Bettws-y-Coed ..	65	11th	43	8, 9	62·0	48·4	54·7	-4·2	89	0	4	0·39	—	2·7	—	17	—	0	47	55·7	-1·8	54·0	+0·6
No. 29, p. 114 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61·6	-1·9	58·9	-1·1
No. 29, p. 114 ..	Cally	70	15th	44	15th	63·7	50·9	56·9	-0·9	104	0	4	0·32	-0·58	—	—	—	—	—	—	—	—	—	—
No. 30, p. 118 ..	Bettws-y-Coed ..	75	26th	45	23, 25	67·6	48·1	57·2	-1·8	106	0	2	0·44	—	5·8	—	36	—	0	44	57·1	-1·2	54·9	+0·4
No. 31, p. 122 ..	Cirencester	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61·3	—	—	—
No. 31, p. 122 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	63·9	-0·5	59·9	-1·1
No. 31, p. 122 ..	Brighton	—	—	—	—	—	—	—	—	—	—	—	—	—	9·1	+1·7	60	+11	0	47	—	—	60·4	—
No. 32, p. 126 ..	Glencarron .. S	61	3rd	41	7th	58·8	46·5	52·3	-1·4	72	0	3	0·28	-1·24	—	—	—	—	—	—	—	—	—	—
No. 32, p. 126 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	63·6	-1·2	60·8	-0·6
No. 33, p. 130 ..	Strathpeffer	73	15th	42	12th	66·6	48·6	57·1	+1·9	106	0	2	0·15	-0·43	1·9	-2·0	13	-13	—	—	—	—	—	—
No. 34, p. 134 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62·9	-0·3	60·6	-1·1
No. 34, p. 134 ..	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	6·6	—	46	—	—	—	—	—	—	—
No. 34, p. 135 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	4·6	—	32	—	—	—	—	—	—	—
No. 36, p. 143 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	2·3	—	18	—	—	—	—	—	—	—
No. 37, p. 146 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60·9	+0·9	60·3	-0·1
No. 37, p. 146 ..	Bettws-y-Coed ..	66	13th	44	9th	64·1	52·6	58·1	+2·0	113	0	3	1·80	—	0·8	—	6	—	0	38	56·1	+2·4	55·6	+1·3
No. 38, p. 150 ..	Strathpeffer	59	14th	38	14th	55·7	44·0	49·6	-1·8	53	0	5	0·91	+0·34	1·2	-2·6	10	-21	—	—	—	—	—	—
No. 40, p. 158 ..	Gordon Castle S	68	28th	32	2nd	60·7	44·4	52·3	+2·4	72	0	0	0·00	-0·70	2·9	—	26	—	—	—	—	—	—	—
No. 40, p. 158 ..	Brighton	—	—	—	—	—	—	—	—	—	—	—	—	—	5·8	+1·2	51	+11	—	—	—	—	60·2	—
No. 43, p. 170 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53·6	+0·5	56·6	+0·3
No. 45, p. 178 ..	Marlborough ..	57	2nd	33	4, 8	53·7	37·7	45·7	+2·0	44	12	4	0·35	-0·42	3·7	+1·5	41	+17	4	28	—	—	53·2	—
No. 45, p. 178 ..	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	3·4	—	38	—	0	31	—	—	—	—
No. 47, p. 186 ..	Bettws-y-Coed ..	65	18th	40	22nd	55·9	44·3	50·1	+4·7	57	0	6	2·70	—	1·3	—	16	—	0	35	47·1	+5·0	49·7	+2·3
No. 48, p. 190 ..	Salisbury (Wilton) ..	54	26, 27	25	23rd	52·1	35·1	43·6	+1·8	40	19	6	0·12	-0·67	—	—	—	—	3	24	45·9	—	—	—
No. 48, p. 190 ..	Blackpool	53	27th	36	23rd	50·4	45·1	47·8	+5·2	41	0	6	0·40	-0·36	1·0	-0·2	13	- 3	1	30	46·9	—	50·2	—
No. 49, p. 194 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48·0	+4·3	50·4	+2·2
No. 50, p. 199 ..	Shaftesbury	51	8, 9	37	7, 13	48·3	40·1	44·4	+4·5	25	5	2	0·03	-0·74	—	—	—	—	—	—	45·3	—	49·3	—
No. 50, p. 199 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	1·0	—	13	—	—	—	—	—	—	—
No. 51, p. 202 ..	Glencarron ..	50	15th	39	20th	46·2	41·2	43·8	+6·8	16	2	5	3·05	+0·67	—	—	—	—	—	—	—	—	—	—
No. 51, p. 202 ..	Gordon Castle	52	15, 16	36	18, 20	47·4	40·4	44·0	+5·6	21	4	3	0·30	-0·32	0·2	—	3	—	—	—	—	—	—	—
No. 51, p. 202 ..	Marchmont .. Border	49	16th	29	20th	44·0	36·9	40·6	+3·7	6	20	2	0·05	-0·52	0·3	-0·9	5	-13	2	23	40·3	+2·5	—	—
No. 51, p. 202 ..	Hastings	51	15th	32	20th	46·1	37·1	41·8	+0·8	11	21	1	0·03	-0·59	3·2	+1·4	42	+18	3	26	43·5	—	49·2	—
No. 51, p. 203 ..	Kilkenny	52	15th	29	14th	46·4	37·6	42·2	+1·5	20	12	2	0·05	-0·69	—	—	—	—	—	—	—	—	—	—
No. 52, p. 206 ..	Glencarron .. S.	47	21st	29	25th	42·0	34·7	38·5	+1·8	0	25	6	3·08	+0·71	—	—	—	—	—	—	—	—	—	—
No. 52, p. 206 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39·8	-3·0	47·3	+0·5
No. 52, p. 206 ..	Canterbury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	25	40·7	-1·5	49·2	+3·1
No. 53, p. 210 ..	Brighton	—	—	—	—	—	—	—	—	—	—	—	—	—	3·3	+1·7	42	+21	—	—	—	—	44·6	—
Station Values, Corrections.																								
No. 1, p. 2 ..	York	—	—	—	—	—	—	—	—	—	—	—	0·71	+0·31	—	—	—	—	—	—	—	—	—	—
No. 1, p. 2 ..	Lincoln	—	—	—	—	47·1	40·9	44·1	+6·7	19	3	1	0·56	+0·16	—	—	—	—	—	—	—	—	—	—
No. 1, p. 2 ..	Shrewsbury	—	—	—	—	48·6	—	44·1	+5·0	26	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 1, p. 2 ..	Dungeness	—	—	—	—	—	—	—	—	—	—	2	0·30	-0·19	—	—	—	—	—	—	—	—	—	—
No. 1, p. 3 ..	Clifton	—	—	38	2nd	—	41·7	45·5	+5·0	26	1	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 2, p. 6 ..	Deerness	—	—	—	—	—	—	—	—	—	—	—	—	—	0·7	-0·2	11	- 3	—	—	—	—	—	—
No. 2, p. 6 ..	Scarborough	—	—	—	—	45·2	—	41·8	+3·3	9	22	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 2, p. 6 ..	Buxton	—	—	—	—	—	33·7	38·6	+3·1	—	31	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 2, p. 6 ..	Dungeness	—	—	—	—	—	—	—	—	—	—	3	0·54	+0·12	—	—	—	—	—	—	—	—	—	—
No. 2, p. 6 ..	Douglas ..	—	—	—	—	—	40·3	44·3	+3·5	23	5	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 2, p. 6 ..	Stonyhurst	—	—	—	—	45·9	—	42·3	+4·1	18	10	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 2, p. 6 ..	Manchester Whit. Pk.	—	—	—	—	46·7	39·1	43·1	+4·0	20	8	—	0·36	—	—	—	—	—	—	—	—	—	—	—
No. 2, p. 7 ..	Donaghadee	—	—	—	—	—	—	—	—	—	—	6	0·94	+0·34	—	—	—	—	—	—	—	—	—	—
No. 3, p. 10 ..	Little Massingham ..	—	—	—	—	—	28·2	33·3	-3·4	—	61	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 3, p. 10 ..	Dungeness	—	—	—	—	—	—	—	—	—	—	5	1·34	+0·94	—	—	—	—	—	—	—	—	—	—

WEEKLY WEATHER REPORT.

CORRECTIONS AND ADDITIONS FOR 1913.

Number and Page of Report.	Numbers of Districts and Names of Stations.	TEMPERATURE. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day	For whole of each day.	Difference of Mean for the week from Average.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	RAINFALL. No. of Rain-days.	Rainfall in the week.	Difference from the Average.	BRIGHT SUNSHINE. Hours per Day. Daily Mean.	Difference from the Average.	Percentage of possible duration.	Difference from the Average.	TEMPERATURE ON GRASS. No. of obs. 30° or below.	Lowest Reading.	EARTH TEMPERATURE. 1 foot. Mean for week.	1 foot. Difference from Average.	4 feet. Mean for week.	4 feet. Difference from Average.
Station Values, Corrections.		°		°		°	°	°	°	Day-deg.	Day-deg.		Ins.	Ins.	Hrs.	Hrs.	%	%		°	°	°	°	°
No. 3, p. 10 ..	Burnley	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	36·6	−0·7	43·0	+1·4
No. 3, p. 10 ..	Stonyhurst	—	—	—	13, 14	—	31·0	35·0	−3·0	—	49	—	0·39	−0·55	—	—	—	—	—	—	—	—	—	—
No. 3, p. 11 ..	Armagh	46	17th	—	—	41·4	—	36·6	−2·9	0	38	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 4, p. 14 ..	Stornoway	—	—	—	—	—	35·0	38·4	−0·7	—	25	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 4, p. 14 ..	Strathpeffer	—	—	—	—	—	—	—	—	—	—	—	0·13	−0·57	2·1	+0·8	28	+11	—	—	—	—	—	—
No. 4, p. 14 ..	Little Massingham ..	—	—	—	—	—	33·6	39·4	+2·3	—	33	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 4, p. 14 ..	Tottenham	—	—	—	—	—	37·9	43·5	+4·7	28	11	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 4, p. 14 ..	Stonyhurst	—	—	—	—	—	35·0	38·9	+1·0	—	26	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 4, p. 14 ..	Hawarden Bridge ..	—	—	—	—	46·7	—	41·9	+1·7	13	24	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 4, p. 15 ..	Blacksod Pt.	—	—	—	—	—	—	—	—	—	—	5	1·81	+0·75	—	—	—	—	—	—	—	—	—	—
No. 4, p. 15 ..	Armagh	—	23rd	—	22nd	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 4, p. 15 ..	Donaghadee	—	—	—	—	—	—	—	—	—	—	6	0·95	+0·36	—	—	—	—	—	—	—	—	—	—
No. 4, p. 15 ..	Valencia	—	—	—	—	48·7	—	45·7	+1·3	26	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 5, p. 18 ..	Dungeness	—	—	—	—	—	—	—	—	—	—	5	1·31	+0·92	—	—	—	—	—	—	—	—	—	—
No. 5, p. 18 ..	Portsmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	2·0	—	23	—	—	—	—	—	—	—
No. 5, p. 19 ..	Llangammarch Wells	—	—	—	—	42·1	30·1	36·3	−1·7	0	43	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 5, p. 19 ..	Cardiff	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	? 2	—	—	—	—	—
No. 5, p. 19 ..	Donaghadee	—	—	—	—	—	—	—	—	—	—	5	1·06	+0·48	—	—	—	—	—	—	—	—	—	—
No. 6, p. 22 ..	Norwich	—	—	—	—	—	—	—	—	—	—	—	—	—	1·9	—	21	—	—	—	—	—	—	—
No. 6, p. 22 ..	Cirencester	—	—	—	—	—	—	—	—	—	—	—	—	—	1·1	−1·1	12	−12	—	—	—	—	—	—
No. 6, p. 22 ..	Dungeness	—	—	—	—	—	—	—	—	—	—	3	0·35	−0·03	—	—	—	—	—	—	—	—	—	—
No. 6, p. 23 ..	Pembroke	—	—	—	—	—	—	—	—	—	—	—	1·17	+0·51	—	—	—	—	—	—	—	—	—	—
No. 6, p. 23 ..	Plymouth	—	—	—	—	—	43·9	47·8	+5·8	41	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 6, p. 23 ..	Donaghadee	—	—	—	—	—	—	—	—	—	—	—	0·93	+0·36	—	—	—	—	—	—	—	—	—	—
No. 6, p. 23 ..	Jersey, St. Aubins ..	—	—	—	—	—	—	—	—	—	—	—	0·38	−0·24	—	—	—	—	—	—	—	—	—	—
No. 7, p. 27 ..	Shaftesbury	—	—	—	—	47·1	33·3	40·2	+1·8	14	34	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 7, p. 27 ..	Kilkenny	—	—	—	—	49·4	—	44·1	+3·2	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 7, p. 27 ..	Rhyl	—	—	—	—	—	—	—	—	—	—	—	—	—	2·5	—	26	—	—	—	—	—	—	—
No. 8, p. 30 ..	Marlborough ..	—	—	25	22nd	—	29 0	34·1	−4·8	—	55	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 8, p. 31 ..	Shaftesbury	—	—	—	—	38·6	—	33·2	−5·7	—	62	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 9, p. 34 ..	Lerwick	—	—	—	—	—	35·1	38·9	−0·5	—	25	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 9, p. 34 ..	Strathpeffer	—	—	—	—	—	—	—	—	—	—	—	—	—	0·6	−1·9	6	−19	—	—	—	—	—	—
No. 9, p. 34 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	0·8	−1·8	8	−17	—	—	—	—	—	—
No. 10, p. 38 ..	Cromer	—	—	30	2nd	—	37·6	44·4	+5·2	—	12	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 10, p. 38 ..	Holyhead	—	2-5	—	—	48·4	—	44·6	+2·5	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 10, p. 39 ..	Markree Castle ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	—	—
No. 10, p. 39 ..	Cahir	—	—	—	—	—	36·1	43·1	+1·0	—	17	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 10, p. 39 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	3·7	—	33	—	—	—	—	—	—	—
No. 11, p. 42 ..	West Linton	—	9, 10	—	—	44·9	32·1	38·3	+0·5	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 11, p. 42 ..	Shrewsbury	—	—	—	—	—	36·6	43·6	+1·8	34	15	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 11, p. 42 ..	Southampton ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 11, p. 42 ..	Holyhead	50	11th	—	—	47·7	—	43·7	+1·3	21	—	—	—	—	—	—	—	—	3	—	—	—	—	—
No. 11, p. 43 ..	Birr Castle	—	—	—	—	48·6	—	40·7	−0·7	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 11, p. 43 ..	Foynes	—	—	—	—	48·9	—	42·4	−0·9	27	—	—	1·15	+0·52	—	—	—	—	—	—	—	—	—	—
No. 12, p. 46 ..	Fort Augustus ..	—	—	—	—	—	—	—	—	—	—	—	—	—	2·2	−0·5	18	− 4	—	—	—	—	—	—
No. 12, p. 46 ..	Clacton	—	—	—	—	—	—	—	—	—	—	—	1·89	—	—	—	—	—	—	—	—	—	—	—
No. 12, p. 46 ..	Tottenham	—	—	29	18th	—	38·0	43·9	+1·7	30	11	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 12, p. 46 ..	Nottingham	—	—	—	—	—	—	—	—	—	—	—	—	—	4·4	—	37	—	—	—	—	—	—	—
No. 12, p. 46 ..	Swarraton	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	—	—	—	—
No. 12, p. 46 ..	Portsmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	5·1	—	43	—	—	—	—	—	—	—
No. 12, p. 46 ..	Holyhead	—	—	—	—	44·7	—	40·2	−2·7	8	22	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 12, p. 47 ..	Cahir	—	—	—	—	—	33·3	39·7	−3·3	—	32	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 13, p. 50 ..	Harrogate	—	—	—	—	—	—	—	—	—	—	—	—	—	1·7	—	14	—	—	—	—	—	—	—
No. 13, p. 50 ..	Manchester (City) ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40·1	−0·7	—	—
No. 13, p. 50 ..	Holyhead	52	29th	—	—	49·0	—	42·9	−1·0	37	14	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 14, p. 54 ..	Stornoway	53	4, 30	—	—	49·9	—	41·4	−0·2	23	32	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 14, p. 54 ..	Fort Augustus ..	—	3rd	—	—	51·6	—	42·7	+1·0	36	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 14, p. 54 ..	Holyhead	53	3rd	—	—	50·7	—	45·8	+1·2	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 14, p. 55 ..	Waterford	—	—	—	—	—	40·4	46·4	+1·6	38	4	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 15, p. 58 ..	York	—	—	—	—	—	—	—	—	—	—	4	0·57	+0·18	—	—	—	—	—	—	—	—	—	—
No. 15, p. 58 ..	Norwich	50	—	—	12th	46·4	36·7	41·3	−3·0	12	20	—	0·92	—	—	—	—	—	2	24	—	—	—	—
No. 15, p. 58 ..	Nottingham	—	—	—	—	—	—	—	—	—	—	—	—	—	3·3	—	17	—	—	—	—	—	—	—
No. 15, p. 58 ..	Hastings	—	7, 8, 10	—	—	48·0	—	43·0	−3·0	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 15, p. 58 ..	Holyhead	—	—	—	—	49·0	—	44·7	−0·7	24	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 15, p. 59 ..	Llangammarch Wells	—	6, 7	—	—	48·9	35·3	41·8	−1·9	—	26	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 16, p. 63 ..	Llangammarch Wells	—	15, 16	—	—	49·3	38·7	43·8	−1·0	23	9	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 17, p. 66 ..	Little Massingham ..	—	—	—	—	57·9	—	48·1	+1·0	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 17, p. 66 ..	Bawtry	—	—	?	?	—	?	?	?	?	?	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 17, p. 66 ..	Douglas	—	—	—	20, 26	—	43·0	47·4	+1·2	38	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 17, p. 67 ..	Llangammarch Wells	—	—	—	—	56·7	—	48·0	+2·1	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 17, p. 67 ..	Markree Castle ..	—	—	—	—	54·4	—	46·3	−0·3	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 17, p. 67 ..	Cahir	—	—	—	20, 26	—	39·1	47·1	−0·2	—	8	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 18, p. 70 ..	Norwich	68	—	—	—	62·3	46·1	53·8	+6·1	83	—	3	0·71	—	—	—	—	—	0	35	—	—	—	—
No. 18, p. 71 ..	Malin Head	—	—	37	—	—	42·0	47·0	0·0	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 19, p. 74 ..	Bettws-y-Coed ..	—	—	—	—	53·0	—	45·6	−4·0	38	—	—	—	—	—	—	—	—	—	—	—	—	—	—

WEEKLY WEATHER REPORT.

CORRECTIONS AND ADDITIONS FOR 1913.

Number and Page of Report.	Numbers of Districts and Names of Stations	TEMPERATURE. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the week from Average.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	RAINFALL. No. of Rain-days.	Rainfall in the week.	Difference from the Average.	BRIGHT SUNSHINE. Hours per Day. Daily Mean.	Difference from the Average.	Percentage of possible duration.	Difference from the Average.	TEMPERATURE ON GRASS. No. of obs. 30° or below.	Lowest Reading.	EARTH TEMPERATURE. 1 foot. Mean for week.	1 foot. Difference from Average.	4 feet. Mean for week.	4 feet. Difference from Average.
Station Values, Corrections.		°		°		°	°	°	°	Day-deg.	Day-deg.		Ins.	Ins.	Hrs.	Hrs.	%	%		°	°	°	°	°
No. 20, p. 78 ..	Castlebay	—	—	—	—	—	—	—	—	—	—	—	0·13	—	—	—	—	—	—	—	—	—	—	—
No. 20, p. 78 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	7·2	—	47	—	—	—	—	—	—	—
No. 20, p. 78 ..	Salisbury (Wilton) ..	—	—	—	—	64·6	—	53·8	+1·3	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 20, p. 78 ..	Newton Rigg ..	—	—	30	16th	—	39·9	49·0	+0·5	—	6	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 21, p. 82 ..	Strathpeffer	—	—	—	—	—	41·0	48·6	−0·5	47	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No 21, p. 83 ..	Birr Castle	—	—	—	—	—	—	—	—	—	—	—	0·37	−0·13	—	—	—	—	—	—	—	—	—	—
No. 22, p. 86 ..	Little Massingham ..	—	—	—	—	—	52·9	63·8	+10·4	153	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 22, p. 87 ..	Cardiff	—	—	—	—	—	50·3	59·9	+4·8	125	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 23, p. 90 ..	Fort Augustus ..	—	—	—	—	—	—	—	—	—	—	—	—	—	2·6	−1·9	15	−11	—	—	—	—	—	—
No. 23, p. 90 ..	Hull	—	—	—	—	—	—	—	—	—	—	—	—	—	4·6	—	28	—	—	—	—	—	—	—
No. 23, p. 90 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	8·5	—	53	—	—	—	—	—	—	—
No. 23, p. 90 ..	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39	—	—	—	—
No. 24, p. 94 ..	Fort Augustus ..	—	—	—	—	—	—	—	—	—	—	—	—	—	4·6	+0·1	26	+ 1	—	—	—	—	—	—
No. 24, p. 94 ..	Hull	—	—	—	—	—	—	—	—	—	—	—	—	—	4·1	—	25	—	—	—	—	—	—	—
No. 24, p. 94 ..	Little Massingham ..	71	14th	—	—	64·6	—	54·3	−2·2	86	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 24, p. 94 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	4·8	—	30	—	—	—	—	—	—	—
No. 24, p. 94 ..	Manchester (City) ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56·0	−1·7	—	—
No. 24, p. 94 ..	Bettws-y-Coed ..	—	—	—	—	—	—	—	—	—	—	—	—	—	4·1	—	25	—	—	—	—	—	—	—
No. 25, p. 103 ..	Bognor	—	—	—	—	—	—	—	—	—	—	—	—	—	6·2	—	38	—	—	—	—	—	—	—
No. 27, p. 106 ..	Deerness	—	—	—	—	—	—	—	—	—	—	—	—	—	0·8	−3·9	4	−22	—	—	—	—	—	—
No. 27, p. 106 ..	Little Massingham ..	—	—	—	—	—	—	—	—	—	—	—	—	—	2·4	−4·1	14	−25	—	—	—	—	—	—
No. 29, p. 114 ..	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	4·0	—	25	—	—	—	—	—	—	—
No. 29, p. 114 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	2·6	—	16	—	—	—	—	—	—	—
No. 29, p. 114 ..	Birr Castle	—	—	—	—	—	—	—	—	—	—	—	—	—	1·6	−2·9	10	−18	—	—	—	—	—	—
No. 30, p. 118 ..	Nairn	—	—	—	—	—	—	—	—	—	—	—	—	—	6·9	—	40	—	—	—	—	—	—	—
No. 30, p. 118 ..	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	2·1	−3·2	13	−20	—	—	—	—	—	—
No. 30, p. 118 ..	Norwich	65	24th	48	21st	61·9	51·3	56·2	−4·4	99	—	4	0·75	—	—	—	—	—	—	44	—	—	—	—
No. 30, p. 118 ..	Geldeston	65	24th	—	—	62·7	—	56·5	−3·9	102	—	—	—	—	3·6	−3·2	23	−20	—	—	—	—	—	—
No. 30, p. 119 ..	Shaftesbury	—	—	—	—	—	49·4	57·9	−1·9	111	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 31, p. 122 ..	Little Massingham ..	—	29, 2	—	—	65·1	—	57·0	−3·2	105	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 31, p. 122 ..	Norwich	70	29th	50	—	66·3	52·9	59·1	−1·3	120	—	—	—	—	—	—	—	—	—	48	—	—	—	—
No. 31, p. 122 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	7·7	—	50	—	—	—	—	—	—	—
No. 32, p. 126 ..	Worthing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60·2	−0·8
No. 33, p. 130 ..	Southampton ..	—	—	—	—	—	—	—	—	—	—	3	0·08	−0·51	—	—	—	—	—	—	—	—	—	—
No. 33, p. 131 ..	Roche's Point ..	—	—	—	—	69·4	—	62·3	+3·5	142	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 34, p. 134 ..	Scarborough	—	—	—	—	—	—	—	—	—	—	—	—	—	4·5	—	32	—	—	—	—	—	—	—
No. 35, p. 138 ..	Blackpool	—	—	—	—	68·4	—	60·1	+2·6	127	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 36, p. 142 ..	Strathpeffer	—	—	—	—	61·4	45·0	52·8	−0·2	76	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 36, p. 142 ..	Geldeston	66	4th	—	—	63·4	—	59·9	+2·3	125	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 36, p. 142 ..	Tottenham	—	—	—	—	—	—	—	—	—	—	—	1·20	—	—	—	—	—	—	—	—	—	—	—
No. 36, p. 142 ..	Aspatria	—	—	—	—	—	48·6	54·9	0·0	90	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 37, p. 146 ..	West Linton	—	—	—	—	57·7	—	48·5	−3·6	53	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 37, p. 146 ..	Norwich	—	12, 13	45	—	65·7	49·6	57·3	+0·3	107	—	—	0·10	—	—	—	—	—	—	41	—	—	—	—
No. 37, p. 146 ..	Geldeston	—	—	—	—	65·6	—	56·7	+0·1	103	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 37, p. 146 ..	Aspatria	—	—	—	—	—	45·1	52·7	−1·2	75	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 37, p. 147 ..	Dublin (Trin. Col.) ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	58·3	+1·3
No. 38, p. 150 ..	Rauceby	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57·8	+0·8	—	—
No. 38, p. 150 ..	Westminster	—	—	—	—	—	—	—	—	—	—	—	0·69	+0·23	—	—	—	—	—	—	—	—	—	—
No. 38, p. 150 ..	Hampstead	—	—	—	—	—	—	—	Nil	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 38, p. 150 ..	Camden Square ..	—	—	—	—	—	—	—	Nil	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 38, p. 150 ..	Newton Rigg	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	54·6	−0·4	—	—
No. 38, p. 150 ..	Blackpool	—	—	—	—	—	—	—	—	—	—	5	0·25	−0·48	—	—	—	—	—	—	—	—	—	—
No. 38, p. 150 ..	Hawarden Bridge ..	—	—	—	—	62·9	—	54·7	−1·0	89	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 38, p. 151 ..	Clifton	66	18, 19	—	—	62·7	—	55·6	−0·8	95	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 38, p. 151 ..	Rhyl	—	—	—	—	—	—	—	—	—	—	—	—	—	5·1	—	42	—	—	—	—	—	—	—
No. 39, p. 155 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	1·4	—	12	—	—	—	—	—	—	—
No. 40, p. 159 ..	Carrick-on-Suir ..	—	—	—	—	—	—	—	—	—	—	—	—	—	4·0	—	35	—	—	—	—	—	—	—
No. 40, p. 158 ..	York	—	—	—	—	63·6	—	58·5	+7·1	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 40, p. 158 ..	Harrogate	—	—	—	—	—	50·9	55·3	+5·0	93	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 40, p. 158 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60·0	+2·6	—	—
No. 40, p. 158 ..	Manchester (Whit. Pk.)	—	—	—	—	—	—	—	—	—	—	—	0·02	−0·67	—	—	—	—	—	—	—	—	—	—
No. 40, p. 159 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	4·0	—	35	—	—	—	—	—	—	—
No. 41, p. 162 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57·1	+0·6	—	—
No. 41, p. 162 ..	Camden Square ..	—	—	—	—	—	—	—	—	—	—	—	—	—	2·2	—	20	—	—	—	—	—	—	—
No. 41, p. 163 ..	Cahir	—	—	—	9th	—	47·1	52·1	+1·4	71	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 41, p. 163 ..	Scilly	—	—	—	—	—	—	—	—	—	—	—	—	—	4·7	+0·5	43	+ 5	—	—	—	—	—	—
No. 41, p. 163 ..	Jersey	—	—	—	—	—	—	—	—	—	—	—	—	—	5·8	+1·3	53	+12	—	—	—	—	—	—
No. 42, p. 166 ..	Fort Augustus ..	—	—	—	15, 16	—	51·6	55·4	+9·6	94	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 42, p. 166 ..	Durham	—	17th	—	18th	—	—	—	—	—	—	—	—	—	3·1	+0·2	30	+ 2	—	—	—	—	—	—
No. 42, p. 166 ..	York	—	—	—	—	—	—	—	—	—	—	2	0·12	−0·48	—	—	—	—	—	—	—	—	—	—
No. 42, p. 166 ..	Fulbeck	—	—	39	18th	—	42·7	50·6	+2·8	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 42, p. 166 ..	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	4·6	—	44	—	—	—	—	—	—	—
No. 42, p. 166 ..	Harrogate	—	—	—	—	—	43·3	49·7	+2·9	54	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 42, p. 166 ..	Shrewsbury	—	—	—	—	59·7	—	50·7	+2·7	61	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 43, p. 170 ..	Buxton	—	—	—	—	52·3	—	45·3	+1·6	37	—	—	—	—	—	—	—	—	—	—	—	—	—	—

WEEKLY WEATHER REPORT.

CORRECTIONS AND ADDITIONS FOR 1913.

Number and Page of Report.	Numbers of Districts and Names of Stations.	TEMPERATURE. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the week from Average.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	RAINFALL. No. of Rain-days.	Rainfall in the Week.	Difference from the Average.	BRIGHT SUNSHINE. Hours per day. Daily mean.	Difference from the Average.	Percentage of possible duration.	Difference from the Average.	TEMPERATURE ON GRASS. No. of obs. 30° or below.	Lowest Reading.	EARTH TEMPERATURE. 1 foot. Mean for week.	1 foot. Difference from Average.	4 feet. Mean for week.	4 feet. Difference from Average.
Station Values, Corrections.		°		°		°	°	°	°	Day-deg.	Day-deg.		Ins.	Ins.	Hrs.	Hrs.	%	%		°	°	°	°	°
No. 43, p. 170 ..	Birmingham	—	—	—	—	—	—	—	—	—	—	2	0·03	−0·57	—	—	—	—	—	—	—	—	—	—
No. 43, p. 170 ..	Shrewsbury	—	—	24	—	—	38·3	46·9	0·0	—	10	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 43, p. 170 ..	Hastings	—	—	—	—	—	—	—	—	—	—	—	1·04	+0·21	—	—	—	—	—	—	—	—	—	—
No. 43, p. 171 ..	Cullompton	—	—	—	—	—	42·0	49·4	+1·4	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 44, p. 174 ..	York	—	—	—	—	56·3	45·0	50·5	+5·0	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 44, p. 174 ..	Portsmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	3·4	—	35	—	—	—	—	—	—	—
No. 44, p. 174 ..	Manchester (Whit. Pk.).	—	—	—	—	—	—	—	—	—	—	—	—	—	—	+2·0	—	+21	—	—	—	—	—	—
No. 44, p. 175 ..	Newquay	—	—	—	—	—	—	—	+2·7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 44, p. 175 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	1·5	—	16	—	—	—	—	—	—	—
No. 44, p. 175 ..	Tenby	—	—	—	—	—	—	—	—	—	—	—	—	—	2·0	−0·8	21	− 9	—	—	—	—	—	—
No. 45, p. 178 ..	Aberdeen	—	—	—	—	—	—	—	—	—	—	—	—	—	3·0	+0·8	36	+ 9	—	—	—	—	—	—
No. 45, p. 178 ..	Tottenham	—	—	—	—	—	43·3	48·7	+3·3	47	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 45, p. 178 ..	Shrewsbury	—	—	—	—	—	—	—	—	—	—	—	0·33	—	—	—	—	—	—	—	—	—	—	—
No. 45, p. 178 ..	Salisbury (Wilton) ..	—	—	—	—	—	—	—	—	—	—	—	0·66	−0·14	—	—	—	—	—	—	—	—	—	—
No. 45, p. 179 ..	Llangammarch Wells	—	—	—	—	—	—	—	—	—	—	—	—	—	2·7	—	30	—	—	—	—	—	—	—
No. 45, p. 179 ..	Cahir	—	—	—	—	52·4	—	44·2	−2·1	41	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 46, p. 182 ..	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	3·2	—	37	—	—	31	—	—	—	—
No. 46, p. 183 ..	Shaftesbury	—	—	—	—	—	42·1	46·9	+2·9	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 47, p. 186 ..	Tottenham	—	—	—	—	—	44·9	49·0	+5·5	49	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 47, p. 186 ..	Hereford	—	—	—	—	—	44·1	49·4	+6·9	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 47, p. 186 ..	Portsmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Nil	—	Nil	—	—	—	—	—	—
No. 47, p 186 ..	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	—	—	—	+0·4	28	+ 4	—	—	—	—	—	—
No. 47, p. 186 ..	Manchester (Whit. Pk.).	—	17, 18	—	—	53·1	—	48·5	+5·1	46	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 48, p. 190 ..	West Linton	—	—	—	—	—	—	—	—	—	—	6	0·58	—	—	—	—	—	—	—	—	—	—	—
No. 48, p. 190 ..	Tottenham	—	—	—	—	—	41·6	47·4	+4·9	39	1	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 48, p. 190 ..	Harrogate	—	—	—	—	—	—	—	—	—	—	—	—	—	1·3	—	17	—	—	—	—	—	—	—
No. 48, p. 190 ..	Aspatria	—	—	—	—	50·4	—	46·9	+5·7	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 48, p. 190 ..	Hawarden Bridge ..	57	29th	—	—	52·9	—	47·2	+3·4	39	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 48, p. 191 ..	Cardiff	—	—	—	—	—	—	—	—	—	—	3	0·20	−0·79	—	—	—	—	—	—	—	—	—	—
No. 48, p. 191 ..	Falmouth	—	—	—	—	—	41·6	47·3	+0·2	39	1	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 49, p. 194 ..	Tottenham	57	4th	—	—	51·9	—	48·1	+6·9	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 49, p. 194 ..	Salisbury (Wilton) ..	55	—	—	—	51·6	43·0	47·5	+6·8	39	—	6	1·21	+0·44	—	—	—	—	—	—	47·6	—	—	—
No. 49, p. 194 ..	Manchester (Whit. Pk.).	—	—	—	—	—	—	—	—	—	—	—	1·07	+0·46	—	—	—	—	—	—	—	—	—	—
No. 49, p. 195 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	0·4	—	5	—	—	—	—	—	—	—
No. 50, p. 198 ..	Tottenham	—	—	—	—	—	42·6	46·5	+6·5	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 50, p. 198 ..	Portsmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	0·9	—	11	—	—	—	—	—	—	—
No. 50, p. 199 ..	Birr Castle	—	—	—	—	—	—	—	—	—	—	5	0·23	−0·48	—	—	—	—	—	—	—	—	—	—
No. 51, p. 202 ..	Tottenham	—	—	—	—	—	39·0	42·6	+3·4	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 51, p. 203 ..	Markree Castle ..	—	—	—	—	—	38·3	42·7	+2·5	20	10	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 52, p. 206 ..	West Linton	—	—	—	—	—	—	—	—	—	—	—	—	—	1·0	—	15	—	—	—	—	—	—	—
No. 52, p. 206 ..	Scarborough	—	—	—	24, 25	—	35·4	40·2	+1·0	—	26	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 52, p. 206 ..	Little Massingham..	—	—	—	—	—	32·3	37·2	−0·3	—	34	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 52, p. 206 ..	Tottenham	—	26, 27	—	—	44·1	—	40·1	+0·9	6	25	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 52, p. 206 ..	Portsmouth ..	—	—	—	—	—	—	—	—	—	—	—	—	—	1·1	—	14	—	—	—	—	—	—	—
No. 52, p. 207 ..	Dublin, Trinity Coll.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	—	—	—	—
No. 53, p. 210 ..	Fort Augustus S	—	—	—	—	39·9	29·9	35·1	−2·9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 53, p. 210 ..	Geldeston	45	—	—	—	39·1	—	33·7	−4·7	—	58	—	—	—	—	—	—	—	—	—	—	—	—	—
No 53, p. 210 ..	Shrewsbury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19	—	—	—	—
No. 53, p. 210 ..	Worthing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	—	—	—	—	—
No. 53, p. 210 ..	Newton Rigg	—	—	—	—	—	—	—	—	—	—	—	—	—	1·5	—	21	—	—	—	—	—	—	—
No. 53, p. 211 ..	Llangammarch Wells.	—	—	—	—	—	23·1	32·1	−5·7	—	69	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 53, p. 211 ..	Birr Castle	—	—	—	—	38·9	—	33·0	−7·1	—	63	—	—	—	—	—	—	—	—	—	—	—	—	—

Number and Page of Report.	Names of Stations.	Temperature of the Sea. Highest.	Lowest.	Mean.	Diff. from Average.
Station Values, Additions.					
No. 12, p. 47 ..	Eastbourne	45	44	44·9	—
No. 13, p. 51 ..	Lerwick	43	42	42·1	−0·8

WEEKLY WEATHER REPORT.

MEAN SEA TEMPERATURE IN DEGREES FAHRENHEIT, 1913, AND DIFFERENCES FROM THE AVERAGES FOR THE FIVE YEARS 1908–1912.

Period of 4 Weeks.	SCOTLAND, N.						SCOTLAND, E.						ENGLAND. N.E.				ENGLAND, E.		ENGLAND, S.E.	
	LERWICK.		KIRKWALL.		WICK.		CROMARTY.		PENNAN BAY.		ABERDEEN.		BERWICK.		SCARBOROUGH.		SHIPWASH.		EASTBOURNE.	
	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.
1. Dec. 29–Jan. 25	43·7	+0·4	41·8	−0·1	43·5	−1·2	40·5	+0·5	41·1	+0·9	42·7	+3·0	39·5	−1·0	43·1	+1·8	45·8	+5·2	45·9	+4·3
2. Jan. 26–Feb. 22	42·9	+0·8	41·8	+1·3	42·2	−1·3	39·8	+0·9	40·6	+0·4	42·0	+2·1	38·3	−0·9	45·1	+4·9	45·2	+5·9	44·0	+4·4
3. Feb. 23–Mar. 22	42·0	−0·2	41·6	+1·1	42·9	0·0	40·4	+0·9	40·9	+0·8	41·4	+0·8	38·4	−1·0	41·8	+1·4	44·3	+4·0	43·1	+1·4
4. Mar. 23–Apr. 19	42·7	−0·8	43·8	+0·6	43·5	−0·2	42·5	+0·4	43·5	+0·6	42·5	−0·4	40·6	−0·8	42·3	−0·4	46·1	+3·4	45·8	+0·9
5. Apr. 20–May 17	45·7	+0·7	46·2	+0·1	45·1	−0·7	46·0	+0·9	46·3	+0·8	44·7	−0·6	43·7	0·0	47·6	+2·1	50·7	+3·2	50·7	+0·8
6. May 18–June 14	48·2	+0·4	50·4	−0·6	46·8	−2·5	50·2	−1·0	52·1	+0·7	49·8	+1·0	47·4	−0·9	54·2	+4·2	55·4	+1·9	56·8	+0·3
7. June 15–July 12	50·9	+0·3	54·1	+1·1	50·2	−1·8	54·0	−0·2	55·6	+2·3	52·2	+0·1	49·7	−1·6	55·2	+1·9	59·4	+1·4	61·2	+1·0
8. July 13–Aug. 9	52·9	+0·2	55·2	0·0	53·3	+0·5	57·7	+1·3	57·7	+1·3	54·9	+0·2	53·1	−1·3	54·3	−2·5	59·8	−1·7	62·0	−1·1
9. Aug. 10–Sept. 6..	53·9	+1·2	56·0	+1·2	53·7	+0·3	57·1	+1·2	58·6	+3·3	55·5	+0·9	54·5	+0·3	56·7	0·0	61·4	−1·2	63·3	−0·4
10. Sept. 7–Oct. 4	52·9	+1·5	53·9	+1·7	53·3	+1·1	54·2	+0·4	55·4	+2·1	54·9	+2·2	52·4	0·0	54·1	+0·1	61·4	+1·4	61·3	+1·2
11. Oct. 5–Nov. 1	51·1	+1·2	50·8	+2·3	51·3	−0·2	51·3	+1·1	51·6	+2·1	52·9	+2·7	50·4	+0·5	51·3	0·0	58·1	+2·0	58·1	+2·0
12. Nov. 2–Nov. 29	49·1	+2·6	48·0	+4·2	49·0	+0·3	46·9	+2·8	47·7	+3·4	49·5	+3·5	48·4	+2·9	46·8	+0·3	52·7	+3·5	53·6	+4·7
13. Nov. 30–Jan. 3.	45·7	+0·7	43·4	+0·7	46·5	+0·3	42·4	+0·5	44·8	+2·1	43·7	+0·1	45·3	+2·3	42·1	−2·0	46·8	+1·5	46·1	−0·4
QUARTERS.																				
1. Dec. 29–Mar. 29	42·8	+0·2	41·8	+1·0	42·9	−0·8	40·3	+0·7	40·9	+0·6	42 0	+1·8	38·8	−1·0	43·2	+2·5	45·2	+5·0	44·4	+3·2
2. Mar. 30–June 28	46·5	+0·2	48·2	+0·3	45·9	−1·4	47·7	0·0	48·9	+1·1	46·9	+0·1	45·0	−0·8	49·6	+2·2	52·4	+2·5	53·0	+0·6
3. June 29–Sept. 27	53·0	+0·8	55·0	+0·8	53·1	+0·4	56·3	+0·9	57·2	+2·1	54·8	+0·8	53·0	−0·6	55·0	−0·8	60·5	−0·6	62·2	0·0
4. Sept. 28–Jan. 3	48·0	+0·6	47·6	+2·1	49·8	+0·8	47·1	+1·1	48·3	+2·2	49·1	+2·1	48·1	+1·6	47·0	−0·7	52·8	+1·9	52·8	+1·6
YEAR	47·6	+0·5	48·2	+1·1	47·9	−0·3	47·9	+0·7	48·8	+1·5	48·2	+1·2	46·2	−0·2	48·7	+0·8	52·7	+2·2	53·1	+1·4
YEAR 1913 Highest Observed	55		58		55		61		61		57		57		60		64		65	
YEAR 1913 Lowest Observed	41		39		41		37		39		41		37		36		40		39	

Period of 4 Weeks.	SCOTLAND, W.				ENGLAND, N.W.		ENGLAND, S.W.								IRELAND, N.W.				IRELAND, S.W.			
	LAMLASH.		BALLANTRAE.		PORT ERIN.		NEWQUAY.		SCILLY.		PLYMOUTH.		SALCOMBE.		SHEEPHAVEN.		TEELIN.		CLEGGAN.		SEAFIELD.	
	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.
1. Dec. 29–Jan. 25	44·4	−0·9	44·6	+2·2	46·6	+0·6	49·5	+3·2	49·6	—	48·3	+0·8	47·9	+1·2	44·2	−0·7	44·6	+0·2	46·7	+2·6	51·1	+5·4
2. Jan. 26–Feb. 22	43·2	−0·7	42·8	+0·3	45·8	+1·3	48·4	+2·5	48·5	—	47·6	+1·0	45·8	+0·6	44·6	0·0	45·5	+1·5	45·4	+1·3	50·4	+4·8
3. Feb. 23–Mar. 22	43·1	−0·5	43·0	0·0	44·8	+1·0	46·9	+0·5	48·3	—	47·2	+1·3	46·8	+1·7	44·0	−0·8	43·7	−1·2	45·4	+0·8	49·2	+3·1
4. Mar. 23–Apr. 19	44·5	−0·1	43·7	−0·9	45·3	+0·4	48·0	−0·2	49·2	—	48·2	+0·5	47·9	+1·2	46·0	−0·6	46·5	−0·6	46·9	+0·3	51·0	+2·6
5. Apr. 20–May 17	46·6	+0·2	46·2	−0·9	47·3	+0·2	49·9	−0·9	51·9	—	51·3	+1·2	50·8	+1·2	48·6	−0·1	48·6	−2·5	48·5	−1·2	52·4	+0·8
6. May 18–June 14	50·0	−1·4	49·1	−2·2	50·6	+0·2	53·7	−2·0	54·5	—	55·6	+1·3	55·6	+2·1	52·6	−1·6	53·2	−2·9	52·4	−1·5	57·8	+1·9
7. June 15–July 12	55·8	+1·8	53·7	−0·1	53·5	0·0	57·6	−1·1	58·4	—	57·5	−0·2	58·4	+2·6	55·9	−0·7	56·2	−2·1	56·6	+0·7	61·4	+2·6
8. July 13–Aug. 9	57·9	+2·0	58·1	+2·2	55·9	−0·1	59·4	−2·3	60·4	—	60·4	−0·2	60·5	+2·1	58·5	−0·3	60·6	+0·6	58·9	+1·4	62·2	+1·1
9. Aug. 10–Sept. 6..	57·2	+1·5	57·0	+0·3	57·0	+0·1	60·6	−0·8	60·1	—	61·4	+1·2	61·4	+1·5	59·2	−0·2	60·1	+0·1	58·4	+1·0	62·0	+1·9
10. Sept. 7–Oct. 4	54·1	−0·5	54·6	+0·6	56·4	+0·6	59·8	+0·3	58·8	—	60·5	+2·0	60·2	+1·4	56·7	0·0	57·8	+0·7	56·9	+1·6	59·3	+1·5
11. Oct. 5–Nov. 1	52·2	+0·3	52·8	+2·1	54·9	+1·2	57·2	+0·3	56·8	—	58·0	+1·8	57·7	+1·3	54·2	+1·0	54·1	+0·8	55·7	+4·1	55·6	+2·0
12. Nov. 2–Nov. 29	49·7	+0·6	49·6	+3·8	52·5	+2·1	53·8	+2·0	53·8	—	53·4	+0·7	53·9	+2·1	48·5	+0·3	50·1	+1·9	50·8	+3·9	51·5	+2·3
13. Nov. 30–Jan. 3	47·2	−0·2	44·8	+0·2	48·5	−0·1	50·4	+1·7	49·5	—	50·8	+1·5	49·1	−0·2	46·3	+0·2	46·4	+1·1	48·0	+2·8	47·7	+0·4
QUARTERS.																						
1. Dec. 29–Mar. 29	43·5	−0·7	43·1	+0·4	45·6	+0·9	48·2	+1·9	48·8	—	47·7	+1·1	46·8	+1·1	44·6	−0·3	44·6	0·0	45·8	+1·4	50·2	+4·3
2. Mar. 30–June 28	48·6	−0·1	47·6	−1·1	48·8	+0·3	51·6	−1·3	53·0	—	52·8	+1·1	52·6	+1·4	50·2	−1·1	50·7	−2·1	50·4	−0·4	55·2	+2·1
3. June 29–Sept. 27	56·5	+1·2	56·5	+0·9	56·0	0·0	59·8	−0·9	59·8	—	60·4	+0·7	60·5	+1·8	58·1	−0·3	59·3	+0·4	58·1	+1·3	61·3	+1·3
4. Sept. 28–Jan. 3	49·9	+0 1	49·1	+1·6	52·0	+0·7	53·9	+1·0	53·5	—	54·6	+1·5	53·7	+0·8	49·7	0·0	50·6	−0·4	51·6	+3·1	51·9	+1·4
YEAR	49·6	+0·1	49·1	+0·5	50·6	+0·5	53·4	+0·2	53·8	—	53·9	+1·1	53·4	+1·3	50·7	−0·4	51·3	−0·5	51·5	+1·4	54·7	+2·3
YEAR 1913 Highest Observed	63		64		60		62		63		63		64		62		66		65		66	
YEAR 1913 Lowest Observed	38		40		43		45		46		45		42		40		39		41		40	

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (*New Series.*) No. 1. FIRST WEEK, SUNDAY, DECEMBER 29TH, 1912, TO SATURDAY, JANUARY 4TH, 1913.

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I.—General Remarks.

Weather. The general condition was very unsettled. Rain was experienced almost daily in Ireland and the south-west of England, and also in the north of Scotland, and on several days over the Kingdom as a whole. In some districts, however, fair intervals were commoner than during the few preceding weeks.

Temperature was above the average, the excess amounting to about 6° in England E. and the Midland Counties and to about 5° in some other parts of Britain. In the south of Ireland the excess was no more than 1°·4, and in Ireland N. and the English Channel about 2°·5. The highest of the maxima occurred on irregular dates, at many stations on December 31st, and at many others on January 4th, and ranged from 55° in England E. and the Midland Counties to 51° in England N.E. and Scotland W. The lowest of the minima, which were mostly recorded either on December 29th or January 2nd, ranged from 26° in the Midland Counties to 35° in the English Channel. The lowest grass readings were 18° at Crathes, 20° at West Linton, Kew Observatory and Hampstead, and 22° at Manchester, Rauceby and Southend-on-Sea. The temperature of the soil was high for the time of year at a depth of 1 foot, and also at 4 feet.

Mean Temperature of the Sea. At most places on the north-eastern, northern and north-western coasts the water was colder than during the corresponding week of last year; elsewhere it was mostly a little warmer. The means for the week ranged from 51° at Seafield, and 50° at Newquay and Scilly to 40° at Burnmouth.

Rainfall was more than the average in Scotland N. and W., the western districts of England and also in the Midland Counties, but less elsewhere. On December 30th as much as 1·85 in. fell at Fort William and 1·16 in. at Aspatria. On January 4th more than an inch was recorded over a large area in the south-west of England and South Wales.

Bright Sunshine was below the normal generally, but exceeded it in England E. and S.E. and also in Ireland N. and the English Channel. The percentage of the possible duration ranged from 27 in England S.E. and 26 in the English Channel to 8 in Scotland N. and England N.W. and to 7 in Scotland W. In England S.E. and the English Channel the mean daily duration was 2·1 hours; in Scotland N. and W. only 0·5 hour.

Barometer and Wind. A southerly to south-westerly type of pressure distribution prevailed throughout the period, and as the depressions which extended over these Islands from the Atlantic were large and deep, strong winds were very common over this country, and gales occurred frequently on various parts of the western and north-western coasts, and at times on the southern, eastern and north-eastern coasts also.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 3.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Heavy	Moderate	Moderate	Light	Heavy	Moderate	Heavy	Heavy	Heavy	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Moderate	Moderate	Abundant	Moderate	Abundant	Scanty	Moderate	Moderate	Moderate	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 5 weeks from Dec. 1st, 1912.	Warmth ...	2 * 1	2 * 1	4 * 1	4 * 0	4 * 0	4 * 0	4 * 1	4 * 0	4 * 0	5 * 0	4 * 0	4 * 0
	Rainfall ...	4 * 0	3 * 1	1 * 1	1 * 1	2 * 0	1 * 0	3 * 1	2 * 1	3 * 1	2 * 0	1 * 0	1 * 1
	Sunshine ...	0 * 3	0 * 1	1 * 3	1 * 3	1 * 3	1 * 2	0 * 4	0 * 1	0 * 3	0 * 2	0 * 4	0 * 4

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(27966—24.) Wt. 173—814. 450. 1/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*48*	*31st*	*31*	*29, 30*	*45·1*	*36·1*	*40·8*	—	*9*	*24*	•	•	39·2	•	•	•	*7*	*1·04*	—	*0·0*	—	*0*	—	*Baltasound.*
a Islands .. *a* Lerwick	49	30, 31	35	30th	46·4	38·7	42·7	+ 3·1	19	9	•	•	•	•	•	•	7	1·34	—	0·7	- 0·1	12	- 2	Deerness.
a Stornoway	52	30th	35	30, 2	46·9	37·4	42·3	+ 3·0	21	13	•	•	•	•	•	•	7	2·23	+ 0·96	0·4	- 0·5	6	- 7	Stornoway.
a Castlebay, Barra Isd.	*51*	*30th*	*39*	*29, 2*	*48·1*	*42·1*	*45·2*	+ *3·5*	*22*	*0*							7	*0·39*	—	*0·7*		*10*	—	*Castlebay.*
a Wick	48	30, 31	33	2nd	45·3	35·9	40·8	+ 2·4	9	25	•	•	•	•	•	•	3	0·08	- 0·52	•	•	•	•	
p Strathpeffer ..	52	31st	32	2nd	45·9	35·6	41 0	+ 3·9	11	27	•	•	•	•	•	•	5	0·66	- 0·11	0·6	- 0·4	9	- 6	Strathpeffer.
p Glencarron ..											•	•	•	•	•	•	—	—	—	•	•	•	•	
p Fort Augustus..	50	31st	35	30th	45·9	37·6	41·9	+ 4·1	11	19	•	•	•	•	•	•	7	1·91	+ 0·63	0·3	- 0·1	5	- 2	Fort Augustus.
p Fort William ..	50	4th	37	29, 1, 4	46·1	38·1	42·3	+ 2·8	18	11	•	•	•	•	•	•	7	4·86	+ 2·68	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	52	31st	33	29th	46·7	37·1	42·1	+ 3·7	21	14	4	18	37·0	+0·8	39·4	+0·3	—	—	—	0·7	—	10	—	Crathes S.
a Nairn	52	30th	29	2nd	46·3	34·1	40·4	+ 3·0	12	32	•	•	•	•	•	•	1	0·02	- 0·52	*1·1*	—	*17*	—	*Gordon Castle.*
a Aberdeen ..	52	31st	31	2, 3	46·4	34·9	40·9	+ 3·1	12	30	•	•	•	•	40·9	0·0	5	0·27	- 0·18	1·2	—	18	—	Nairn.
a Balmoral ..	48	31st	28	29, 2	44·9	33·3	39·3	+ 4·8	8	34	4	24	•	•	•	•	3	0·13	- 0·44	0·7	- 0·7	11	-11	Aberdeen.
p Crieff	48	31st	33	2nd	44·3	36·1	40·4	+ 3·1	6	24	•	•	•	•	•	•	6	1·08	+ 0·16	0·2	—	3	—	Balmoral.
a Leith	52	31st	37	29th	48·1	39·7	44·1	+ 4·8	24	6	•	•	•	•	•	•	4	0·18	- 0·21	•	•	•	•	Balruddery.
p West Linton .. S	48	31st	30	29th	44·0	35·1	39·7	+ 3·2	6	27	4	20	•	•	•	•	5	0·68	—	*0·7*	—	*10*	—	*West Linton.*
p Marchmont .. S	50	31st	31	29th	44·6	35·6	40·3	+ 3·6	7	26	2	26	37·6	+1·3	•	•	4	0·33	- 0·21	1·0	- 0·3	14	- 4	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	50	30, 31, 1	32	2nd	47·7	36·0	42·1	+ 3 8	26	17	4	26	38·2	+1·2	41·6	+1·4	4	0·34	- 0·23	1·0	—	14	—	Cockle Park.
a Shields	51	31, 4	33	2, 3	47·1	36·4	42·0	+ 3·1	14	16	•	•	•	•	•	•	4	0·17	- 0·23	•	•	•	•	*Newcastle.*
p Durham											•	•	•	•	•	•	—	—	—	•	•	•	•	Durham.
a, North .. *p* Rounton	48	31. 4	34	29, 2	45·3	37·6	41·6	+ 4·1	9	19	4	28	39·3	•	•	•	7	0·43	+ 0·03	•	•	•	•	Rounton.
a West Witton	*48*	*3rd*	*34*	*29th*	*45·1*	*38·0*	*41·7*	—	*9*	*17*	0	31	40·6	•	42·1	•	*6*	*0·82*	—	•	•	•	•	*West Witton.*
p Scarborough	49	31, 4	35	2nd	45·9	39·2	42·7	+ 3·8	17	8	•	•	•	•	43·2†	•	3	0·46	- 0·02	0·7	—	10	—	Scarborough.
p York	50	31, 4	33	2nd	46·7	37·9	42·5	+ 4·3	21	11	•	•	41·5	+2·3	44·2	+1·3	3	0·19	- 0·21	0·0	- 0 9	0	-12	York.
a Spurn Head	47	31, 4	36	2, 3	45·6	39·1	42·5	+ 3·4	16	8	2	24	40·7	+2·6	44·1	+0·5	3	0·50	+ 0·15	*0·1*	—	*1*	—	*Hull.*
b South .. *a* Lincoln	49	4th	35	2nd	46·1	41·6	43·9	+ 6·5	15	1	•	•	40·1	+2·1	42·5	-0·3	0	0·00	- 0·40	•	•	•	•	Lincoln.
a Fulbeck	49	4th	33	2nd	46·4	39·3	43·0	+ 5·7	18	8	4	22	42·0	+2·5	45·1	+1·2	1	9·38	- 0·02	1·5	—	20	—	Rauceby.
											•	•	•	•	•	•	—	—	—	1·9	—	26	—	Skegness.
3. ENGLAND, E.											1	27	42·3	+3·3	45·1	+1·8	—	—	—	*2·3*	—	*30*	—	*Lowestoft.*
p Cromer	50	29, 31	34	2nd	46·9	37·6	42·4	+ 5·1	21	12	•	•	•	•	•	•	6	0·14	—	1·7	—	23	—	Cromer.
p Little Massingham ..	50	29th	33	2nd	45·7	38·6	42·3	+ 5·0	16	10	2	27	•	•	•	•	4	0·40	- 0·08	1·4	0·0	18	0	Lit. Massingham.
a, North .. *a* Yarmouth	?50	29th	35	2nd	46·6	40·1	43·5	+ 5·4	18	5	•	•	42·1	+3·1	46·0	+2·5	6	0·21	- 0·22	2·4	—	32	—	Yarmouth.
a Norwich	49	31st	32	2nd	45·9	38·7	42·4	+ 4·5	17	8	3	27	41·7	•	•	•	5	0·36	—	*2·3*	—	*30*	—	*Norwich.*
p Geldeston	52	29th	34	2nd	47·9	40·4	44·3	+ 5 8	23	4	•	•	•	•	•	•	3	0·07	- 0·33	2·4	+ 0·8	32	+10	Geldeston.
p Cambridge	51	29th	30	2nd	47·9	38·7	43·5	+ 5·5	24	9	2	23	42·7	+3·7	46·1	+2·4	4	0·24	- 0·08	2·1	+ 0·6	28	+ 8	Cambridge.
a Felixstowe	*48*	*31st*	*36*	*2nd*	*46·6*	*40·3*	*43·6*	+ *4·7*	*18*	*5*	•	•	•	•	•	•	*3*	*0·09*	—	*2·5*	—	*33*	—	*Felixstowe.*
a Clacton-on-Sea ..	49	29th	37	2, 3	47·1	41·3	44·3	+ 5·6	19	2	0	31	43·9	+3·1	46·9	+1·1	2	0·05	—	2·2	—	29	—	Clacton.
b, South .. *a* Rothamsted	50	31st	31	2, 3	47·6	37·3	42·7	+ 4·9	25	13	•	•	•	•	•	•	5	0·54	+ 0·07	1·9	+ 0·4	25	+ 6	Rothamsted.
a Shoeburyness	*49*	*31, 4*	*37*	*2nd*	*47·6*	*40·6*	*44·2*	+ *5·2*	*21*	*4*	2	22	44·3	+4·0	•	•	*3*	*0·03*	- *0·27*	*2·2*	—	*29*	—	*Southend.*
p Tottenham	55	29th	35	2nd	50·4	41·0	45·9	+ 7·0	32	3	2	28	•	•	47·2	+2·0	2	0·25	—	0·6	—	8	—	Tottenham.
4. MIDLAND COUNTIES.											2	28	40·7	+1·4	43·6	+1·2	—	—	—	*0·3*	—	*11*	—	*Huddersfield.*
a Harrogate	48	4th	34	2, 3	45·0	37·4	41·4	+ 4·2	8	20	1	28	41·0	+1·8	42·7	+1·5	4	0·61	+ 0·06	0·1	—	1	—	Harrogate.
a Bawtry	49	31, 3, 4	33	2nd	46·7	38·0	42·5	+ 4·7	20	11	3	23	41·1	•	43·7	•	5	0·65	+ 0·26	0·4	- 0·7	5	- 9	Worksop.
p Buxton	*47*	*4th*	*33*	*2nd*	*44·1*	*37·4*	*40·9*	+ *5·2*	*6*	*19*	3	26	40·5	+1·8	44·4	+1·1	*5*	*0·65*	- *0·48*	*0·4*	—	*5*	—	*Buxton.*
a East .. *a* Nottingham	49	31, 3, 4	31	3rd	47·0	37·9	42·6	+ 4·6	21	11	1	26	41·2	+3·5	43·4	+2·1	4	0·69	+ 0·26	0·9	—	12	—	Nottingham.
p Birmingham, Edgbsn.	48	4th	35	2nd	45·9	39·0	42·6	+ 4·7	17	8	3	25	43·4	+3·1	48·2	+1·1	5	1·01	+ 0·53	0·8	—	11	—	Birmingham.
a Raunds	50	31st	31	2, 3	47·4	37·6	42·7	+ 5·2	23	12	2	25	43·0	•	46·9	•	3	0·33	—	•	•	•	•	Raunds.
a Oxford	51	29th	36	2nd	48·3	40·9	44·8	+ 5·9	24	3	1	29	•	•	•	•	6	0·47	+ 0·05	1·9	+ 0·4	25	+ 6	Oxford.
											2	29	41 3	+2·7	44·1	+1·2	—	—	—	0·6	•	8	—	Sheffield.
a Cheadle	47	31, 4	32	1st	44·3	36·9	40·8	+ 3·7	6	21	2	26	•	•	•	•	3	1·11	+ 0·52	•	•	•	•	Cheadle.
p Shrewsbury ..	55	3rd	33	2nd	49·3	39·3	44·5	+ 5·4	29	8	1	27	•	•	•	•	3	0·71	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	50	30th	36	2nd	48·0	40·1	44·2	+ 5·7	23	5	0	31	•	•	•	•	4	1·07	+ 0·57	•	•	•	•	Hereford.
a Cirencester	48	31, 3, 4	28	2, 3	46·4	35·9	41·4	+ 3·5	12	26	1	29	43·5	•	45·6	•	6	1·15	+ 0·59	1·0	- 0·5	13	- 6	Cirencester.
a Bath	52	31, 4	31	2nd	50·1	39·9	45·2	+ 5·4	31	6	•	•	44·8	+3 4	48·1	+2·1	5	1·07	+ 0·49	1·3	—	17	—	Bath.
5. ENGLAND, S.E.											2	27	44·4	+3·7	48·0	+2·8	—	—	—	•	•	•	•	Canterbury
p Kew	53	29th	29	2nd	48·7	40·3	44·7	+ 5·5	26	5	2	20	44·3	+4·5	47·1	+2·3	3	0·31	- 0·08	1·8	+ 0·5	23	+ 7	Kew.
a Marlborough	48	31, 3	33	2nd	46·4	39·0	42·9	+ 5·1	19	8	2	24	•	•	46·9	•	6	0·94	+ 0·34	1·2	0·0	16	0	Marlborough.
a Margate	49	4th	35	2nd	47·6	39·3	43·6	+ 3·9	23	8	•	•	46·1	+5·4	48·1	+4·2	1	0·07	- 0·34	2·3	+ 0·8	30	+11	Margate.
a Wisley, Surrey ..	50	4th	33	2, 3	48·3	39·0	43·8	+ 4·4	25	8	2	23	43·3	+3·4	46·4	+2·5	4	0·33	—	2·0	—	26	—	Wisley
a Swarraton	48	31, 3, 4	28	2nd	47·1	37·6	42·5	+ 4·5	22	12	2	26	45·2	+4·9	48·0	+2·7	5	0·76	+ 0·16	2·6	—	33	—	Worthing.
a Tunbridge Wells ..	48	4th	35	1, 2	46·6	37·7	42·3	+ 4·2	20	12	4	26	42·6	+3·1	•	•	3	0·41	- 0·19	2·7	+ 1·3	34	+16	Tunbridge Wells.
a Dungeness	52	29th	37	2nd	49·4	42·7	46·2	+ 6·2	29	0	•	•	•	•	•	•	1	0·27	- 0·16	2·5	—	33	—	Littlestone.
p Hastings..	51	29, 30	37	2nd	49·4	42·7	46·2	+ 6·1	29	0	1	29	43·8	•	47·0	•	3	0·15	- 0·41	*3·0*	+ *1·1*	*38*	+*14*	*Hastings.*
p Southampton	52	29th	31	2nd	49·9	40·7	45·5	+ 5·5	30	4	1	26	•	•	•	•	5	0·76	+ 0·14	1·6	0·0	20	0	Southampton
a Ventnor	50	29, 1, 4	40	2nd	49·7	43·3	46·6	+ 4·1	32	0	1	26	•	•	•	•	5	0·36	- 0·23	1·8	+ 0·1	23	+ 1	Ventnor.
											2	25	45·5	+3·6	48·6	+2·4	—	—	—	*2·2*	—	*28*	—	*Portsmouth.*
											•	•	46·0	•	48·1	•	—	—	—	2·5	+ 0·8	32	+ 9	Eastbourne.
											•	•	45·3	•	46·8	•	—	—	—	*1·9*	—	*24*	—	*Bournemouth.*
LONDON.											1	30	•	•	46·9	•	—	—	—	*2·0*	+ *0·4*	*35*	+ *3*	*Brighton.*
a Westminster	*51*	*31. 4*	*33*	*2nd*	*49·6*	*40·3*	*45·1*	+ *5·9*	*29*	*5*	1	30	•	•	•	•	*3*	*0·21*	- *0·18*	*1·1*	+ *0·6*	*14*	+ *8*	*Westminster.*
a Greenwich	*50*	*31, 4*	*32*	*2nd*	*48·4*	*38·9*	*43·8*	+ *3·9*	*26*	*9*	2	28	•	•	•	•	*3*	*0·23*	- *0·16*	*2·3*	+ *1·1*	*30*	+*15*	*Greenwich.*
a Hampstead	*48*	*4th*	*35*	*2nd*	*46·3*	*38·9*	*42·8*	—	*19*	*9*	4	20	•	•	•	•	*4*	*0·29*	—	*1·3*	—	*17*	—	*Hampstead.*
a Camden Square ..	*51*	*4th*	*31*	*2nd*	*48·4*	*39·0*	*43·9*	—	*26*	*8*	1	29	•	•	•	•	*3*	*0·24*	—	*1·1*	—	*14*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	48	30, 31, 3	36	29th	45·9	39·4	42·8	+ 3·2	17	7	•	•	•	•	•	•	6	2·88	+ 1·74	•	•	•	•	
p Glasgow .. .. S	49	31, 4	37	2nd	46·4	40·4	43·5	+ 4·7	17	4	0	31	•	•	•	•	5	0·67	- 0·13	0·1	- 0·5	1	- 8	Glasgow.
p Rothesay .. S	51	31st	37	29th	47·6	40·3	44·1	+ 4·2	22	5	•	•	•	•	43·9	+0·9	6	1·76	+ 0·72	•	•	•	•	
a Kilmarnock .. S	50	30, 31	35	29th	47·7	38·7	43·4	+ 3·4	24	9	•	•	•	•	•	•	4	0·74	—	*0·4*	—	*6*	—	*Kilmarnock.*
a Colmonell .. S	50	31st	36	2nd	47·3	39·3	43·5	+ 3·1	22	8	2	30	•	•	•	•	4	1 57	+ 0·50	•	•	•	•	
p Dumfries .. S	50	31st	35	29th	46·4	39·9	43·3	+ 4·7	18	6	3	27	40·9	•	43·0	•	6	1·18	+ 0·35	*0·5*	—	*7*	—	*Dumfries.*
p Cally, Gatehouse S	50	29th	31	29th	47·9	3[illegible]·0	42·7	+ 4·2	26	14	•	•	•	•	•	•	4	1·67	+ 0·59	•	•	•	•	
b I. OF MAN																								
p Douglas	50	31st	39	29, 2	47·4	42·0	44 3	+ 3·6	20	0	0	32	•	•	•	•	6	0·89	- 0·01	0·9	- 0·6	12	- 9	Douglas.
											1	28	40·7	+1·8	43·5	+1·2	—	—	—	*0·3*	—	*3*	—	*Burnley.*
											2	26	•	•	•	•	—	—	—	1·2	—	16	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	49	4th	38	29, 1, 2	46·5	41·0	43·9	+ 5·6	18	3	0	31	42·9	•	45·2	•	7	1·76	+ 1·06	0·5	—	7	—	Aspatria.
p Newton Rigg	49	31st	31	3rd	45·3	37·4	41·5	+ 4·5	9	19	4	23	41·1	+2·2	44·8	+1·2	6	0·82	+ 0·04	0·2	- 1·0	3	-14	Newton Rigg.
p Stonyhurst	48	31, 4	36	29, 2	45·7	39·7	42·8	+ 4·5	15	6	2	28	•	•	•	•	5	1·05	+ 0·08	0·1	- 0·9	1	-12	Stonyhurst.
p Blackpool	50	4th	35	2nd	47·1	40·3	43·8	+ 4·7	20	5	2	28	43·1	•	46·0	•	6	0·84	+ 0·21	0·2	- 0·8	3	-11	Blackpool.
p Manchester (Whit Pk.)	50	4th	35	2nd	46·9	40·1	43·6	+ 4·2	19	5	3	22	•	•	•	•	3	0·77	+ 0·02	*0·1*	—	*1*	—	*Whit. Park.*
a Liverpool (Bidston) ..	51	31st	35	2, 3	47·9	39·3	43·8	+ 3·6	24	8	•	•	•	•	•	•	4	0·35	- 0·15	*1·0*	—	*14*	—	*Liverpool.*
a Hawarden Bridge ..	52	31, 3	35	2, 3	49·9	39·7	45·0	+ 4·3	31	6	2	27	40·3	+2·2	43·2	+1·6	3	0·43	+ 0·01	*0·6*	- *0·5*	*8*	- *7*	*Southport.*
											0	32	41·7	+2·9	45·1	+1·3	—	—	—	*0·0*	—	*0*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	52	31st	38	2nd	48·7	42·3	45·6	+ 3·8	25	0	•	•	•	•	•	•	4	0·61	+ 0·01	1·3	- 0·1	18	- 1	Llandudno.
a Holyhead	50	30, 31, 3	42	29th	49·0	43·7	46·5	+ 4·2	32	0	•	•	•	•	•	•	6	0·85	+ 0·11	0·9	—	12	—	Aberdovey.
p Bettws-y-Coed ..	52	4th	34	4th	49·0	38·0	43·7	+ 2·4	29	11	2	30	43·6	+3·2	46·1	+1·7	6	1·16	—	0·3	—	4	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				1·1	—	15	—	Aberystwyth.
a Llangammarch Wells	49	3, 4	34	2nd	47·1	38·6	43·0	+ 5·4	21	10	2	27	43·0	+2·2	46·7	+1·3	7	1·09	—	0·6	—	8	—	Llangammarch
a Pembroke	54	31st	44	30, 31, 2	50·7	45·3	48·1	+ 4·8	43	0	*	*	*	*	*	*	5	0·50	- 0·31	0·9	- 0·7	12	- 9	Pembroke.[Wells
p Cardiff	49	30, 31, 4	37	2nd	47·7	41·0	44·5	+ 4·9	22	3	1	27	43·9	+3·2	46·7	+2·1	7	1·79	+ 0·89	*0·9*	—	*12*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	52	4th	34	4th	49·0	40·3	44·8	+ 4·3	27	5	0	32	*	*	*	*	5	1·51	+ 0·83	*1·0*	—	*13*	—	*Clifton.*
a Shaftesbury	48	31, 4	35	2nd	48·4	38·1	42·4	+ 4·4	19	11	*	*	43·6	*	46·3	*	5	0·73	+ 0·15	*	*	*	*	Shaftesbury.
a Arlington	49	4th	35	2nd	47·1	42·1	44·7	+ 4·9	19	0	*	*	47·1	*	*	*	6	1·44	+ 0·27	2·2	+ 0·6	28	+ 7	Newquay.
a Cullompton	51	30, 4	29	2nd	49·6	38·9	44·5	+ 4·3	31	9	2	24	45·5	*	*	*	6	1·78	+ 1·01	1·1	- 0·2	14	- 3	Cullompton.
a Portland	51	31, 3, 4	43	29th	50·4	46·1	48·3	+ 5·8	44	0	*	*	*	*	*	*	5	0·52	—	*1·7*	—	*21*	—	*Weymouth.*
p Plymouth	52	30, 31	35	2nd	50·8	43·5	47·3	+ 4·6	37	0	*	°	46·7	+3·6	*	*	6	2·03	+ 1·18	1·7	+ 0·1	21	+ 1	Plymouth.
p Falmouth	51	31st	39	2nd	49·1	43·4	46·4	+ 2·3	31	0	*	*	*	*	*	*	6	1·20	+ 0·07	2·7	+ 0·9	34	+11	Falmouth.
9. IRELAND, N.																								
a Malin Head	50	30, 31	36	29th	46·6	37·9	42·4	+ 0·9	20	11	*	*	*	*	*	*	7	0·51	- 0·14	*	*	*	*	*
a, West .. *a* Blacksod Point ..	53	30th	41	29, 1, 4	49·4	42·1	45·9	+ 3·0	27	0	*	*	*	*	*	*	7	2·28	+ 1·08	*	*	*	*	*
p Markree Castle ..	54	31st	29	3rd	49·1	33·9	41·8	+ 1·9	20	35	5	24	42·3	*	45·9	*	7	0·82	- 0·09	1·5	+ 0·3	21	+ 4	Markree Castle.
a Birr Castle	52	31st	34	29, 2	48·0	35·6	42·1	+ 2·1	28	18	*	*	*	*	*	*	6	0·31	- 0·36	*0·0*	*- 1·5*	*0*	*-21*	*Birr Castle.*
p Armagh	50	31st	34	29th	46·0	37·6	42·0	+ 2·2	11	12	0	31	41·6	+0·1	44·7	+0·5	5	0·46	- 0·12	1·4	+ 0·1	19	+ 1	Armagh.
b, East .. *a* Donaghadee	51	31st	34	2nd	47·0	37·3	42·3	+ 1·4	22	13	*	*	*	*	*	*	3	0·37	- 0·26	*	*	*	*	*
											1	28	42·6	+1·3	45·2	+0·6	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											4	28	*	*	*	*	—	—	—	1·6	- 0·2	22	- 2	Phœnix Park.
p Dublin, City	51	31, 4	39	2nd	49·0	41·6	45·5	+ 3·6	26	1	0	34	*	*	*	*	2	0·05	- 0·43	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	51	31, 3	30	29, 2	48·1	31·9	40·3	- 0·2	17	42	*	*	*	*	*	*	6	0·30	- 0·46	*	*	*	*	*
a Waterford	52	31st	33	2, 3	49·1	35·4	42·5	+ 0·7	31	18	*	*	*	*	*	*	5	0·67	- 0·25	*	*	*	*	*
a Birr Castle	52	31st	34	29, 2	48·0	35·6	42·1	+ 2·1	28	18	*	*	*	*	*	*	6	0·31	- 0·36	0·0	- 1·5	0	-21	Birr Castle.
a Foynes	52	30th	36	3rd	48·6	39·0	44·0	+ 1·7	27	8	*	*	*	*	*	*	6	0·92	+ 0·02	*	*	*	*	*
a Cahir	52	31st	29	3rd	47·4	32·6	40·3	- 1·4	15	39	*	*	*	*	*	*	7	0·55	—	*	*	*	*	*
b, West .. *a* Killarney ..	52	30, 31, 3	36	3, 4	49·6	39·4	44·7	+ 1·9	30	7	*	*	*	*	*	*	7	1·99	+ 0·49	*	*	*	*	*
a Valencia	52	30, 31, 3	38	3rd	50·1	41·1	45·8	+ 0·7	30	3	*	*	*	*	*	*	7	1·67	+ 0·33	1·5	0·0	20	0	Valencia.
a Roche's Point ..	52	31st	38	3rd	49·4	40·7	45·2	+ 1·3	28	4	*	*	*	*	*	*	7	0·73	- 0·37	1·1	—	14	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	51	30, 3, 4	43	29th	50·6	45·3	48·1	+ 1·6	43	0	*	*	*	*	*	*	6	0·60	- 0·20	2·0	+ 0·2	25	+ 3	Scilly.
a Jersey, St. Aubins ..	52	30th	35	3rd	50·0	41·6	46·0	+ 2·7	30	1	*	*	*	*	*	*	5	0·55	- 0·22	2·2	+ 0·1	28	+ 2	St. Heliers.
a Guernsey (Villa Carey)	51	30, 4	38	2nd	49·6	42·9	46·4	+ 2·3	31	0	1	30	47·1	+2·6	49·4	+1·5	6	0·59	- 0·24	2·1	+ 0·6	26	+ 7	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·3 hrs. 29 %; Ramsgate, 2·8 hrs. 36 %; Rhyl, 1·4 hrs. 19 %; Salcombe. 1·6 hrs. 20 %; Tenby, 1·3 hrs. (−0·4) 17 % (− 5 %); Torquay, 2·0 hrs. (+0·2) 25 % (+3 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, January 4th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	44	44	44·0	+0·2	SCOTLAND, W. ..	Lamlash	46	44	45·5	- 0·6
	Kirkwall	43	41	42·6	+1·4		Ballantrae	46	43	44·3	+1·3
	Wick	45	45	45·0	0·0	ENGLAND, N.W. ..	Port Erin	48	47	47·5	+0·7
SCOTLAND, E. ..	Cromarty	43	41	41·9	+1·5		Newquay	50	50	50·0	+2·8
	Pennan Bay	42	40	41·4	+0·6	ENGLAND, S.W. ..	Scilly	51	50	50·3	—
	Aberdeen, Cove Bay	43	42	42·5	+1·7		Plymouth‡	50	49	49·3	+0·9
ENGLAND, N.E. ..	Burnmouth, Berwick	41	39	40·1	-1·5		Salcombe	50	48	48·8	+1·2
	Scarborough	45	41	42·1	+0·6	IRELAND, N.W. ..	Sheephaven	47	44	45·5	+0·3
ENGLAND, E. ..	Shipwash Lightship	47	46	47·0	+4·9		Teelin	48	44	45·5	0·0
	Margate‡	47	45	45·8	+4·1	IRELAND, S.W. ..	Cleggan	49	48	48·5	+4·2
ENGLAND, S.E. ..	Eastbourne‡	47	46	46·4	+3·6		Seafield	52	50	51·0	+4·8
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905 An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIRST WEEK—December 29th, 1912, to January 4th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	52	32	46·1	37·2	41·8	+ 4·0	11	+ 5	21	−16	6	+ 1	1·85	+0·76	0·5	−0·2	8	− 3
Eastern.																		
1. SCOTLAND, EAST ...	52	28	45·7	35·7	40·9	+ 4·5	10	+ 5	26	−18	4	0	0·44	−0·16	0·8	−0·2	11	− 3
2. ENGLAND, N.E.	51	32	46·2	38·7	42·6	+ 4·8	18	+ 12	9	−28	3	− 1	0·30	−0·12	1·0	0·0	14	0
3. ENGLAND, EAST ...	55	30	47·3	39·3	43·5	+ 6·2	22	+ 14	8	−34	4	0	0·25	−0·20	1·8	+0·6	24	+ 7
4. MIDLAND COUNTIES ...	55	26	47·1	38·4	43·0	+ 5·8	22	+ 13	10	−32	4	0	0·81	+0·26	0·9	−0·3	12	− 4
5. ENGLAND, S.E.	53	28	48·3	40·2	44·4	+ 5·3	24	+ 12	5	−27	4	0	0·44	−0·10	2·1	+0·7	27	+ 9
Western.																		
6. SCOTLAND, WEST ...	51	31	47·1	39·6	43·5	+ 4·8	21	+ 13	7	−24	5	0	1·42	+0·33	0·5	−0·5	7	− 6
7. ENGLAND, N.W.	52	31	47·6	40·2	44·0	+ 4·8	22	+ 12	5	−25	5	+ 1	0·86	+0·19	0·6	−0·4	8	− 5
8. ENGLAND, S.W.	54	29	48·8	41·8	45·4	+ 4·4	25	+ 9	1	−22	6	+ 1	1·26	+0·35	1·5	0·0	19	0
9. IRELAND, NORTH ...	54	29	47·7	37·4	42·8	+ 2·6	25	+ 13	13	−12	6	+ 1	0·79	−0·02	1·5	+0·3	20	+ 3
10. IRELAND, SOUTH ...	52	29	48·8	37·5	43·4	+ 1·4	29	+ 9	13	− 6	6	+ 1	0·80	−0·25	1·1	−0·4	14	− 6
11. ENGLISH CHANNEL ...	52	35	50·1	43·3	46·8	+ 2·3	34	+ 8	0	− 9	6	+ 1	0·58	−0·22	2·1	+0·2	26	+ 2

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 5 Weeks, December 1st, 1912, to January 4th, 1913.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	51	+ 11	121	− 38	31	+ 5	11·06	+4·67	0·3	−0·3	5	− 5
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	55	+ 20	152	− 48	24	+ 3	3·90	+0·66	0·7	−0·3	11	− 4
2. ENGLAND, N.E.	58	19	*	*	*	*	106	+ 65	82	− 80	20	+ 2	2·18	−0·26	0·7	−0·5	10	− 6
3. ENGLAND, EAST ...	59	24	*	*	*	*	128	+ 81	53	−132	24	+ 4	2·70	+0·51	0·8	−0·6	11	− 7
4. MIDLAND COUNTIES ...	59	20	*	*	*	*	131	+ 80	73	−116	23	+ 4	3·98	+1·31	0·8	−0·4	11	− 5
5. ENGLAND, S.E.	59	22	*	*	*	*	163	+ 88	28	−105	23	+ 3	3·72	+0·87	1·2	−0·2	15	− 4
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	104	+ 48	67	− 60	30	+ 6	7·37	+1·44	0·4	−0·6	6	− 8
7. ENGLAND, N.W.	60	8	*	*	*	*	129	+ 70	48	− 81	28	+ 7	5·05	+1·36	0·5	−0·5	8	− 6
8. ENGLAND, S.W.	57	22	*	*	*	*	165	+ 69	14	− 79	29	+ 6	7·33	+2·35	0·9	−0·6	12	− 7
9. IRELAND, NORTH ...	58	20	*	*	*	*	143	+ 76	49	− 63	31	+ 6	5·94	+1·70	0·9	−0·3	12	− 5
10. IRELAND, SOUTH ...	58	20	*	*	*	*	172	+ 61	35	− 50	34	+10	5·71	+0·54	1·1	−0·4	14	− 6
11. ENGLISH CHANNEL ...	56	35	*	*	*	*	225	+ 70	0	− 28	31	+ 6	4·56	+0·26	1·2	−0·7	15	− 8

THE YEAR.—Aggregates, &c., for the Period of 1 Week, December 29th, 1912, to January 4th, 1913.

0. SCOTLAND, NORTH ...	52	32	*	*	*	*	11	+ 5	21	− 16	6	+ 1	1·85	+ 0·76	0·5	−0·2	8	− 3
Eastern.																		
1. SCOTLAND, EAST ...	52	28	*	*	*	*	10	+ 5	26	− 18	4	0	0·44	− 0·16	0·8	−0·2	11	− 3
2. ENGLAND, N.E.	51	32	*	*	*	*	18	+ 12	9	− 28	3	− 1	0·30	− 0·12	1·0	0·0	14	0
3 ENGLAND, EAST ...	55	30	*	*	*	*	22	+ 14	8	− 34	4	0	0·25	− 0·20	1·8	+0·6	24	+ 7
4. MIDLAND COUNTIES ...	55	26	*	*	*	*	22	+ 13	10	− 32	4	0	0·81	+ 0·26	0·9	−0·3	12	− 4
5. ENGLAND, S.E.	53	28	*	*	*	*	24	+ 12	5	− 27	4	0	0·44	− 0·10	2·1	+0·7	27	+ 9
Western.																		
6. SCOTLAND, WEST ...	51	31	*	*	*	*	21	+ 13	7	− 24	5	0	1·42	+ 0·33	0·5	−0·5	7	− 6
7. ENGLAND, N.W.	52	31	*	*	*	*	22	+ 12	5	− 25	5	+ 1	0·86	+ 0·19	0·6	−0·4	8	− 5
8. ENGLAND, S.W.	54	29	*	*	*	*	25	+ 9	1	− 22	6	+ 1	1·26	+ 0·35	1·5	0·0	19	0
9. IRELAND, NORTH ...	54	29	*	*	*	*	25	+ 13	13	− 12	6	+ 1	0·79	− 0·02	1·5	+0·3	20	+ 3
10. IRELAND, SOUTH ...	52	29	*	*	*	*	29	+ 9	13	− 6	6	+ 1	0·80	− 0·25	1·1	−0·4	14	− 6
11. ENGLISH CHANNEL ...	52	35	*	*	*	*	34	+ 8	0	− 9	6	+ 1	0·58	− 0·22	2·1	+0·2	26	+ 2

M.O., January 8, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) | No. 2. | SECOND WEEK, SUNDAY, JANUARY 5TH, TO SATURDAY, JANUARY 11TH, 1913. | *Price 6d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. The conditions over these islands were generally unsettled, but over a large part of England the weather was often fair, and occasionally fine and bright. On Saturday rain fell heavily over the southern counties, and much snow in the northern and central parts of Great Britain.

Temperature continued above the average, the excess being greatest (5°·6) in Scotland North, and least (3°·3) in England North-East. The highest of the maxima were recorded during the earlier half of the week, and ranged from 56° in Scotland East to 52° in England South-East and South-West, and Scotland West. The lowest of the minima occurred at most places either on the 6th or 11th, and varied from 26° in Scotland East and Ireland South to 31° in England East and South-East, and to 41° in the English Channel. The lowest grass readings were 16° at West Linton, 21° at Dublin, and 22° at Newton Rigg and Markree Castle. The temperature of the soil was much above the average at a depth of 1 foot and considerably above it at a depth of 4 feet.

Mean Temperature of the Sea. On most parts of the coast the temperature of the water was higher than during the corresponding week of last year, and in nearly all localities it was above the normal. The mean values ranged from 52° at Seafield and 50° at Scilly and Newquay to 40° at Burnmouth.

Rainfall was in excess of the average except in Scotland North, and in most districts the excess was very large. Heavy falls occurred in Ireland on the 9th and 10th, the largest measurements being 1·50 in. at Cahir on the 9th and 1·52 in. at Dublin on the 10th. More than an inch of water was yielded by the snow which fell over England and Scotland on Saturday, the highest figures being 1·32 in. at Lincoln, 1·37 in. at Harrogate and 1·52 in. at Rauceby. At West Witton, where the snow yielded 1·15 in. of water, its depth was 1 foot, at Rauceby 1 foot to 1 foot 2 inches, and at Crieff, where the amount of water was 1·24 in., the depth of snow was 1 foot 5½ inches.

Bright Sunshine was less than the normal in all parts of the Kingdom. In Scotland West and North and England North-East the mean daily amount was less than 0·5 hour.

Barometer and Wind. Throughout the greater part of the period the pressure distribution was of a south-westerly to southerly type, and as the main depressions which encroached on these islands from the Atlantic were large and deep, the force of the wind was generally fresh or strong to a gale, gale force being attained more frequently in the west and north than elsewhere. Late in the week, when the anticyclonic system lay over northern Europe, the general direction of the wind was South-Easterly. The force of the gales from that point of the compass was very severe on the east and north-east coasts of Great Britain; on the coast of Shetland the gale began on the morning of Wednesday and had not ceased at the end of the period. The heavy snow of Saturday fell on the northern side of a secondary depression which developed over England.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 7.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Light	Moderate	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Heavy	Very heavy	Very heavy	Heavy
	Sunshine ...	Moderate	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 6 weeks from Dec. 1st, 1912.	Warmth ...	3 * 1	3 * 1	4 * 1	4 * 0	5 * 0	5 * 0	5 * 1	5 * 0	5 * 0	6 * 0	5 * 0	5 * 0
	Rainfall ...	4 * 1	3 * 1	2 * 1	2 * 1	3 * 0	2 * 0	3 * 1	3 * 1	4 * 1	3 * 0	2 * 0	2 * 1
	Sunshine ...	0 * 3	0 * 2	1 * 4	1 * 4	1 * 4	1 * 2	0 * 5	0 * 1	0 * 4	0 * 3	0 * 5	0 * 5

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(28073—24.) Wt. 173—814. 450. 1/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*48*	7, 8	*34*	*6th*	*44·7*	*39·7*	*42·3*	—	*12*	*6*	•	•	40·3	•	•	•	7	*0·26*	—	*0·3*	—	*5*	—	*Baltasound.*
a Islands .. *a Lerwick*	48	7th	36	11th	44·9	41·0	43·0	+ 3·7	11	3	•	•	•	•	•	•	6	0·31	—	0·1	- 0·8	2	-13	Deerness.
a Stornoway	50	6, 7, 9	36	6th	47·7	41·6	44·8	+ 5·6	21	1	•	•	•	•	•	•	5	0·79	- 0·42	0·8	- 0·1	12	- 2	Stornoway.
a Castlebay, Barra Isd. .	*51*	*9th*	*39*	*11th*	*47·0*	*43·4*	*45·3*	+ *3·9*	*23*	*0*	•	•	•	•	•	•	*7*	*1·47*	—	*0·2*	—	*3*	—	*Castlebay.*
a Wick	48	7th	33	6th	44·1	39·3	41·8	+ 3·6	6	12	•	•	•	•	•	•	2	0·11	- 0·49	•	•	•	•	•
b, Main- *p* Strathpeffer	51	8th	30	6th	47·0	38·3	42 8	+ 5·9	21	10	•	•	•	•	•	•	2	0·08	- 0·65	0·5	- 0·5	8	- 7	Strathpeffer.
land. *p* Glencarron											•	•	•	•	•	•	—	—	—	•	•	•	•	•
p Fort Augustus.. ..	53	8, 9	33	6th	46·0	33·3	44·3	+ 6·5	27	8	•	•	•	•	•	•	4	0·62	- 0·65	0·3	- 0·7	4	-10	Fort Augustus.
p Fort William	54	7th	34	6th	48·6	40·7	44·8	+ 5·3	25	4	•	•	•	•	•	•	6	1·24	- 0·93	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle.. .. S	56	7th	34	6, 11	46·6	38·4	42·7	+ 4·4	20	10	2	23	38·3	+2·8	39·5	+0·8	—	—	—	0·2	—	3	—	Crathes S.
a Nairn	53	7th	29	6, 7	46·7	36·1	41·6	+ 4·2	13	25	•	•	•	•	•	•	2	0·02	- 0·49	*0·9*	—	*13*	—	*Gordon Castle.*
a Aberdeen	51	7th	30	6, 7	44·3	38·6	41·6	+ 3·9	6	15	•	•	•	•	40·8	+0·6	2	0·16	- 0·39	0·2	- 1·3	3	-19	Aberdeen.
a Balmoral ..	52	7th	26	6th	44·0	36·6	40·5	+ 6·2	6	22	2	24	•	•	•	•	4	1·21	+ 0·51	•	•	•	•	Balmoral.
p Crieff	50	7, 8	31	6, 11	44·6	36·6	40·8	+ 3·6	7	22	•	•	•	•	•	•	4	1·73	+ 0·80	—	—	—	—	Balruddery.
a Leith	55	7th	35	6, 7	46·9	39·7	43·4	+ 4·2	19	6	•	•	•	•	•	•	1	0·32	- 0·05	•	•	•	•	•
p West Linton .. S	50	7, 8	28	6th	43·9	35·1	39·7	+ 3·3	5	27	3	16	•	•	•	•	3	0·80	—	*0·4*	—	*6*	—	*West Linton.*
p Marchmont	51	7, 8	31	6, 11	44·6	36·0	40·5	+ 3·9	7	24	1	28	38·6	+2·5	•	•	3	0·77	+ 0·24	0·4	- 0·9	6	-13	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	53	7th	30	6, 7	45·1	36·9	41·2	+ 3·0	9	21	1	25	39·4	+2·7	41·4	+1·7	3	1·31	+ 0·80	0·5	—	7	—	Cockle Park.
a Shields	53	7th	33	7th	44·7	37·3	41·2	+ 2·3	8	20	•	•	•	•	•	•	3	1·45	+ 1·05	•	•	•	•	*Newcastle.*
p Durham	52	7th	30	6th	43·7	35·9	40·0	+ 2·9	5	24	1	28	•	•	•	•	3	0·93	+ 0·55	0·0	- 1·4	0	-19	Durham.
a, North .. *p* Rounton	51	7th	31	11th	44·3	36·4	40·5	+ 3·3	6	22	1	28	40·0	•	•	•	3	0·76	+ 0·36	•	•	•	•	Rounton.
a West Witton	*50*	*7th*	*29*	*11th*	*42·3*	*36·1*	*39·3*	—	*1*	*22*	2	29	40·6	•	42·0	•	*6*	*1·67*	—	•	•	•	•	*West Witton.*
p Scarborough	51	7th	33	6, 7	46·6	37·4	42·2	+ 3·7	21	13	•	•	•	•	43·0†	•	3	0·57	+ 0·11	0·0	—	0	—	Scarborough.
p York	52	7th	32	6th	46·4	37·9	42·3	+ 4·3	19	11	•	•	42·0	+3·5	43·9	+1·9	3	1·20	+ 0·83	0·1	—	1	—	York.
a Spurn Head	48	5, 7	33	11th	44·0	38·7	41·5	+ 2·8	6	14	1	28	41·7	+4·4	43·4	+0·3	2	0·45	+ 0·14	*0·0*	—	*0*	—	*Hull.*
b South .. *a* Lincoln	50	5, 7	33	11th	45·3	40·7	43·1	+ 6·0	13	4	•	•	41·1	+4·4	43·3	+1·3	3	1·34	+ 0·95	•	•	•	•	Lincoln.
a Fulbeck	50	5th	31	11th	44·9	37·6	40·9	+ 3·7	6	18	2	24	42·6	+3·7	45·0	+4·1	3	0·68	+ 0·29	0·6	—	8	—	Rauceby.
											•	•	•	•	•	•	—	—	—	1·0	—	13	—	Skegness.
											1	30	41·9	+4·1	44·6	+2·2	—	—	—	*0·7*	—	*9*	—	*Lowestoft.*
p Cromer	50	5th	31	11th	45·1	36·0	40·7	+ 3·6	9	24	•	•	•	•	•	•	3	0·61	+ 0·14	1·2	—	16	—	Cromer.
p Little Massingham ..	53	7th	32	11th	44·6	36·5	40·7	+ 3·6	7	22	2	28	•	•	•	•	2	0·64	—	1·5	0·0	20	0	Lit. Massingham.
a, North .. *a* Yarmouth	49	5th	34	11th	43·9	39·6	41·8	+ 4·0	5	10	•	•	41·7	+3·5	45·3	+2·2	4	0·93	+ 0·53	0·7	—	9	—	Yarmouth.
a Norwich	49	5th	33	11th	43·4	38·7	41·1	+ 3·6	4	13	1	30	41·1	•	•	•	2	0·88	—	*1·2*	—	*16*	—	*Norwich.*
p Geldeston	49	5th	32	11th	44·9	38·3	41·7	+ 3 5	8	16	•	•	•	•	•	•	4	0·63	+ 0·26	1·0	- 0·7	13	-10	Geldeston.
p Cambridge	52	5th	33	6, 11	45·9	38·1	42·2	+ 4·5	18	11	1	27	42·6	+4·4	45·7	+2·8	3	0·72	+ 0·41	1·8	+ 0·3	23	+ 4	Cambridge.
a Felixstowe	*49*	*5th*	*35*	*11th*	*44·9*	*40·1*	*42·6*	+ *4·1*	*12*	*5*	•	•	•	•	•	•	*3*	*0·88*	—	*0·9*	—	*12*	—	*Felixstowe.*
a Clacton-on-Sea ..	48	5th	36	11th	44·7	40·7	42·8	+ 4·5	11	4	0	32	43·8	+3·8	46·4	+1·5	3	0·58	—	0·7	—	9	—	Clacton.
b, South .. *a* Rothamsted	51	5th	32	11th	45·9	38·4	42·3	+ 4·9	17	10	•	•	•	•	•	•	3	0·52	+ 0·05	0·7	- 0·8	9	-10	Rothamsted.
a Shoeburyness	*50*	*5th*	*34*	*11th*	*45·4*	*38·9*	*42·8*	+ *4·1*	*14*	*6*	3	27	43·7	+4·6	•	•	*4*	*0·66*	+ *0·38*	*1·2*	—	*15*	—	*Southend.*
p Tottenham	52	5th	34	11th	46·6	39·9	43·4	+ 4·6	19	6	1	30	•	•	46·8	+2·4	2	0·91	—	0·0	—	0	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	51	7th	29	11th	42·4	35·6	39·1	+ 2·0	1	23	2	26	41·4	+2·8	43·6	+1·6	—	—	—	*0·5*	—	*7*	—	*Huddersfield.*
a Bawtry	52	7th	31	6th	45·4	37·9	41·8	+ 4·1	10	18	2	26	41·1	+2·4	42·3	+1·7	4	1·67	+ 1·15	0·0	—	0	—	Harrogate.
p Buxton	*48*	*7th*	*30*	*11th*	*43·1*	*32·3*	*37·9*	+ *2·4*	*3*	*36*	1	24	42·2	•	43·5	•	3	1·20	+ 0·83	0·1	- 1·0	1	-13	Worksop.
a East .. *a* Nottingham	51	5, 7	34	6, 7, 11	45·7	38·6	42·3	+ 4·5	16	10	2	25	41·1	+2·8	41·0	+1·2	*5*	*0·98*	- *0·72*	*0·2*	—	*3*	—	*Buxton.*
p Birmingham, Edgbsn.	49	5, 7	32	11th	45·6	37·6	41·8	+ 4·0	10	19	1	26	41·8	+4·9	43·1	+2·6	3	0·90	+ 0·48	0·9	—	12	—	Nottingham.
a Raunds	52	5th	33	6, 11	45·9	38·3	42·3	+ 5·1	18	10	1	27	43·5	+3·7	48·0	+1·4	4	0·88	+ 0·42	0·3	—	4	—	Birmingham.
p Oxford	52	5th	35	11th	47·9	40·0	44·1	+ 5·3	23	6	2	25	42·5	•	46·4	•	1	1·10	—	•	•	•	•	Raunds.
											1	29	•	•	•	•	2	0·49	+ 0·09	1·7	+ 0·2	22	+ 3	Oxford.
											3	27	41 7	+3·8	43·9	+1·8	—	—	—	0·1	•	1	—	Sheffield.
a Cheadle	48	5, 7	31	5, 6, 11	44·3	34·6	39·6	+ 2·9	6	29	4	27	•	•	•	•	5	0·82	+ 0·25	•	•	•	•	Cheadle.
p Shrewsbury	52	7th	32	6th	46·7	38·3	42·7	+ 4·1	20	10	2	26	•	•	•	•	6	1·10	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	50	5, 7	32	8th	46·7	39·3	43·2	+ 5·0	20	8	1	28	•	•	•	•	4	0·33	- 0·17	•	•	•	•	Hereford.
a Cirencester	50	5th	29	6th	45·7	38·9	41·5	+ 4·0	10	22	1	29	43·6	•	45·2	•	4	1·60	+ 1·07	0·3	- 1·2	4	-15	Cirencester.
a Bath	54	5th	32	6, 7	50·6	40·6	45·8	+ 6·2	32	4	•	•	•	•	•	•	2	0·91	+ 0·36	0·7	—	9	—	Bath.
5. ENGLAND, S.E.																								
											2	29	43·5	+3·7	47·5	+3·1	—	—	—	•	•	•	•	Canterbury
p Kew	52	5th	35	11th	46·9	40·1	43·6	+ 4·7	19	5	2	25	43·9	+5·0	46·9	+2·8	3	0·55	+ 0·17	1·3	0·0	17	0	Kew.
a Marlborough	50	5th	31	6th	47·1	39·7	43·6	+ 6·0	21	6	1	23	•	•	46·9	•	5	0·87	+ 0·30	0·7	- 0·6	9	- 8	Marlborough.
a Margate	50	5th	33	11th	45·0	39·3	42·3	+ 2·9	13	8	•	•	45·4	+5·7	47·9	+5·0	1	0·01	- 0·37	0·4	- 1·1	5	-14	Margate.
a Wisley, Surrey ..	52	9th	35	11th	47·6	40·6	44·2	+ 4·9	21	4	1	28	43·5	+4·1	45·9	+2·7	3	0·60	—	1·7	—	21	—	Wisley
a Swarraton	50	5, 9	34	6th	47·0	39·9	43·6	+ 5·9	20	6	1	27	45·3	+6·0	47·5	+2·8	4	1·08	+ 0·50	1·9	—	24	—	Worthing.
a Tunbridge Wells ..	49	5th	32	11th	45·1	38·1	41·7	+ 4·0	9	17	1	30	42·3	+4·1	•	•	4	1·10	+ 0·50	0·7	- 0·8	9	-10	Tunbridge Wells.
a Dungeness	50	5th	35	11th	46·6	41·1	44·0	+ 4·4	18	3	•	•	•	•	•	•	2	0·51	+ 0·09	0·9	—	11	—	Littlestone.
p Hastings	50	5, 6	36	10, 11	47·0	39·7	43·5	+ 3·9	20	6	0	32	43·9	•	46·7	•	3	0·93	+ 0·39	*0·5*	—	*6*	—	*Hastings.*
p Southampton	52	5th	38	5, 6	49·1	41·6	45·5	+ 5·6	26	1	1	30	•	•	•	•	5	1·44	+ 0·85	0·6	- 1·0	8	-13	Southampton
a Ventnor	51	5th	42	6th	49·3	45·0	47·2	+ 5·1	36	0	•	•	•	•	•	•	4	1·03	+ 0·46	1·5	- 0·3	19	- 4	Ventnor.
											0	31	45·6	+4·5	48·0	+2·6	—	—	—	*1·8*	—	*23*	—	*Portsmouth.*
											•	•	45·6	•	47·9	•	—	—	—	1·2	- 0·6	15	- 8	Eastbourne.
											•	•	45·6	•	46·6	•	—	—	—	*0·6*	—	*8*	—	*Bournemouth.*
LONDON.											0	31	•	•	46·4	•	—	—	—	*1·1*	- *0·6*	*14*	- *8*	*Brighton.*
a Westminster	*52*	*5th*	*35*	*11th*	*47·3*	*41·7*	*44·6*	+ *5·6*	*19*	*1*	0	32	•	•	•	•	*3*	*0·60*	+ *0·22*	*0·9*	+ *0·4*	*11*	+ *5*	*Westminster.*
a Greenwich	*51*	*5, 7*	*34*	*11th*	*46·6*	*39·4*	*43·1*	+ *3·9*	*19*	*7*	2	27	•	•	•	•	*4*	*0·57*	+ *0·20*	*1·6*	+ *0·4*	*20*	+ *5*	*Greenwich.*
a Hampstead	*50*	*5th*	*32*	*11th*	*44·6*	*38·9*	*41·9*	—	*7*	*14*	1	30	•	•	•	•	*3*	*0·74*	—	*0·7*	—	*9*	—	*Hampstead.*
a Camden Square ..	*52*	*5th*	*34*	*11th*	*46·4*	*40·3*	*43·5*	—	*18*	*5*	1	30	•	•	•	•	*3*	*0·75*	—	*0·4*	—	*5*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. .. S	50	6, 7	31	6th	45·3	37·9	41·8	+ 2·5	9	18	•	•	•	•	•	•	6	1·43	+ 0·33	•	•	•	•	•
p Glasgow	52	7th	33	11th	46·7	39·6	43·3	+ 4·7	19	7	1	26	•	•	•	•	4	0·60	- 0·16	0·0	- 0·6	0	- 9	Glasgow.
p Rothesay	51	8, 9	33	11th	47·0	39·6	43·5	+ 3·8	21	7	•	•	•	•	43·6	+1·1	5	1·77	+ 0·77	•	•	•	•	•
a Kilmarnock	52	7th	32	6th	45·9	38·0	42·1	+ 2·2	18	11	•	•	•	•	•	•	4	0·23	—	*0·9*	—	*13*	—	*Kilmarnock.*
a Colmonell	51	6th	30	6th	45·3	38·1	41·8	+ 1·7	9	17	2	24	•	•	•	•	5	2·14	+ 1·11	•	•	•	•	•
p Dumfries	49	7, 8, 10	30	6th	46·3	36·9	41·8	+ 3·4	12	22	2	24	41·1	•	43·0	•	5	1·06	+ 0·27	*0·4*	—	*6*	—	*Dumfries.*
p Cally, Gatehouse ..	50	7th	30	6th	44·6	37·9	41·4	+ 3·3	7	17	•	•	•	•	•	•	5	1·20	+ 0·16	•	•	•	•	•
b I. OF MAN																								
p Douglas	50	7th	33	11th	48·0	42·0	45 1	+ 4·3	22	0	1	30	•	•	•	•	6	1·52	+ 0·69	0·6	- 0·9	8	-12	Douglas.
											1	30	40·8	+2·6	43·3	+1·4	—	—	—	*0·6*	—	*8*	—	*Burnley.*
											1	27	•	•	•	•	—	—	—	0·8	—	11	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	51	7, 8	32	11th	46·6	39·1	43·0	+ 4·9	19	8	2	29	42·9	•	44·6	•	4	0·45	- 0·21	1·2	—	16	—	Aspatria.
p Newton Rigg	50	7th	29	11th	44·0	35·7	40·0	+ 3·1	6	25	3	22	41·1	+2·7	42·6	+1·6	4	0·81	+ 0·05	0·1	- 1·1	1	-15	Newton Rigg.
p Stonyhurst	51	7th	31	11th	45·1	38·3	41·8	+ 3·6	9	16	3	28	•	•	•	•	4	0·72	- 0·24	0·5	- 0·5	7	- 7	Stonyhurst.
p Blackpool	52	7th	33	11th	45·4	38·7	42·2	+ 3·3	15	9	3	27	42·9	•	45·8	•	3	0·96	+ 0·34	0·6	- 0·5	8	- 7	Blackpool.
p Manchester (Whit Pk.)	52	7th	33	6, 11	46·4	39·9	43·3	+ 4·2	18	6	1	24	•	•	•	•	3	0·31	—	*0·9*	+ *0·4*	*12*	+ *5*	*Whit. Park.*
a Liverpool (Bidston) ..	54	7th	34	7th	46·3	38·9	42·8	+ 2·8	19	9	•	•	•	•	•	•	5	1·05	+ 0·55	*1·1*	—	*15*	—	*Liverpool.*
a Hawarden Bridge ..	55	7th	33	7th	47·6	39·9	43·9	+ 3·5	22	6	1	27	41·1	+3·6	43·0	+2·1	5	1·47	+ 1·07	*0·5*	- *0·7*	*7*	- *9*	*Southport.*
											0	32	42·1	+4·0	45·0	+1·9	—	—	—	*0·3*	—	*4*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	54	7th	34	11th	47·3	41·1	44·3	+ 2·8	20	3	•	•	•	•	•	•	4	1·25	+ 0·67	1·5	+ 0·1	20	+ 1	Llandudno.
a Holyhead	52	9th	40	6th	48·6	43·0	45·9	+ 3·8	27	0	•	•	•	•	•	•	6	1·23	+ 0·53	1·6	—	21	—	Aberdovey.
p Bettws-y-Coed ..	55	8th	35	5th	52·7	40·9	47·0	+ 6·0	40	3	0	31	44·1	+4·3	46·0	+2·2	4	1·14	—	1·0	—	13	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date†	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	51	7th	31	6th	46·7	39·6	43·3	+ 6·0	19	7	1	27	43·2	+3·2	46·1	+1·3	6	1·51	—	1·7	—	22	—	Aberystwyth.
a Pembroke	52	7th	42	5, 6	49·7	45·0	47·4	+ 4·6	38	0	*	*	°	°	°	°	7	1·80	+ 1·01	0·6	- 1·0	8	-13	Pembroke.[Wells
p Cardiff	50	5, 7, 8	33	6th	48·2	40·4	44·5	+ 4·9	24	4	1	25	44·4	+5·3	46·2	+2·3	4	1·38	+ 0·52	*0·8*	—	*10*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	52	5th	35	6th	49·3	41·7	45·7	+ 5·7	27	1	1	27	*	*	*	*	3	1·01	+ 0·38	*0·8*	—	*10*	—	*Clifton.*
a Shaftesbury	49	5th	36	6th	46·1	39·6	43·0	+ 5·2	17	7	*	*	44·0	*	45·7	*	4	0·79	+ 0·21	*	*	*	*	Shaftesbury.
a Arlington	50	7th	34	6th	47·1	39·9	43·6	+ 4·1	20	6	*	*	°	*	*	*	4	1·73	+ 0·63	*	*	*	*	Arlington.
a Newquay	*51*	*6-10*	*33*	*6th*	*50·1*	*43·0*	*46·7*	+ *2·8*	*33*	*0*	*	*	46·9	*	*	*	7	*1·82*	+ *1·11*	1·1	- 0·5	14	- 6	Newquay.
a Cullompton	52	5th	29	6th	50·0	41·0	45·7	+ 5·9	30	3	2	25	45·9	*	*	*	6	1·53	+ 0·79	0·4	- 1·0	5	-13	Cullompton.
a Portland	53	5th	43	6th	50·1	46·4	48·3	+ 6·2	44	0	*	*	*	*	*	*	5	1·14	—	*0·6*	—	*7*	—	*Weymouth.*
p Plymouth	52	5, 6	41	6th	51·1	45·5	48·4	+ 6·1	45	0	0	31	47·3	+5·3	°	*	7	1·80	+ 1·00	1·5	- 0·1	19	- 1	Plymouth.
p Falmouth	51	7, 9	39	5, 6	49·6	44·6	47·2	+ 3·5	36	0	*	*	°	°	°	*	7	2·14	+ 1·10	1·4	- 0·4	17	- 5	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	51	7th	33	6th	47·3	39·3	43·5	+ 2·2	22	8	*	*	*	*	*	*	7	0·69	+ 0·06	*	*	*	*	
a Blacksod Point ..	52	9th	38	5, 6	48·7	42·0	45·5	+ 2·7	25	0	*	*	°	°	°	*	7	1·97	+ 0·82	*	*	*	*	
p Markree Castle ..	55	11th	28	5, 6	49·1	36·6	43·1	+ 3·5	30	15	2	22	42·2	*	45·1	*	5	2·79	+ 1·81	1·0	- 0·2	14	- 3	Markree Castle.
a Birr Castle	53	6, 7	31	6th	49·1	39·3	44·4	+ 4·7	28	8	*	*	*	*	*	*	5	1·55	+ 0·89	*0·2*	- *1·4*	*3*	- *19*	*Birr Castle.*
b, East .. *p* Armagh	53	7th	32	5, 6	48·1	40·6	44·5	+ 4·9	23	4	1	30	42·1	+1·8	44·1	+0·2	5	1·39	+ 0·81	0·3	- 1·1	3	-16	Armagh.
a Donaghadee	51	7th	33	6, 7	46·9	40·6	43·9	+ 3·3	19	4	*	*	°	°	°	°	5	0·91	+ 0·31	*	*	*	*	
											1	21	43·6	+2·8	45·0	+0·7	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											1	22	*	*	*	*	—	—	—	0·3	- 1·5	4	-20	Phœnix Park.
a. East .. *p* Dublin, City	55	7th	34	6th	50·7	43·0	47·0	+ 5·4	35	0	1	30	*	*	*	*	6	2·07	+ 1·58	*	*	*	*	Dublin City.
a Kilkenny	52	6th	26	6th	48·7	39·9	44·5	+ 4·2	26	6	*	*	*	*	*	*	6	2·41	+ 1·64	*	*	*	*	
a Waterford	52	6, 7	32	6th	50·1	42·6	46·5	+ 5·1	32	0	*	*	*	*	*	*	6	2·80	+ 1·90	*	*	*	*	
a Birr Castle	53	6, 7	31	6th	49·1	39·3	44·4	+ 4·7	28	8	*	*	*	*	*	*	5	1·55	+ 0·84	0·2	- 1·4	3	-19	Birr Castle.
a Foynes	53	6th	33	6th	49·9	39·6	45·0	+ 2·8	31	7	*	*	*	*	*	*	7	1·43	+ 0·57	*	*	*	*	
a Cahir	53	7th	27	6th	48·6	40·1	44·5	+ 3·1	25	5	*	*	*	*	*	*	6	2·53	—	*	*	*	*	
b, West .. *a* Killarney	54	6th	33	5, 6	51·0	39·1	45·3	+ 2·8	35	8	*	*	*	*	*	*	7	2·65	+ 1·20	*	*	*	*	
a Valencia	54	9th	33	5, 6	51·1	38·7	45·2	+ 0·4	36	9	*	*	*	*	*	*	7	2·83	+ 1·58	1·1	- 0·4	14	- 5	Valencia.
a Roche's Point	51	6, 9	36	6th	49·9	43·7	46·9	+ 3·3	34	0	*	*	*	*	*	*	7	2·60	+ 1·53	°	—	—	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	53	9th	41	6th	51·4	45·3	48·5	+ 2·4	46	0	*	*	*	*	*	*	7	1·76	+ 1·02	1·0	- 0·8	12	-10	Scilly.
a Jersey, St. Aubins ..	52	5th	43	8th	49·3	44·9	47·2	+ 4·4	36	0	*	*	*	*	*	*	4	0·61	- 0·12	1·5	- 0·6	18	- 7	St. Heliers.
a Guernsey (Villa Carey)	51	5th	43	6th	48·9	45·7	47·4	+ 3·7	38	0	0	36	47·0	+3·1	48·9	+1·8	3	0·83	+ 0·03	0·8	- 0·8	10	-10	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·0 hrs. 25 °/₀; Ramsgate, 0·5 hrs. 6 °/₀; Rhyl, 1·5 hrs. 20 °/₀; Salcombe, 1·6 hrs. 29 °/₀; Tenby, 1·3 hrs. (−0·5) 17 °/₀ (− 6 °/₀); Torquay, 1·1 hrs. (−0·7) 14 °/₀ (−9 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, January 11th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	44	44	44·0	+0·4	SCOTLAND, W. ..	Lamlash	47	44	45·5	-0·1
	Kirkwall	45	42	43·2	+2·4		Ballantrae	46	44	44·9	+2·4
	Wick	? 44	? 44	? 44·0	-0·7	ENGLAND, N.W. ..	Port Erin	48	45	47·3	+1·0
SCOTLAND, E. ..	Cromarty	44	40	42·1	+2·0		Newquay	50	50	50·0	+3·4
	Pennan Bay	43	41	41·9	+1·6	ENGLAND, S.W. ..	Scilly	51	50	50·1	—
	Aberdeen, Cove Bay	43	42	42·8	+3·0		Plymouth‡	50	48	49·0	+1·1
ENGLAND, N.E. ..	Burnmouth, Berwick	41	39	40·1	-0·8		Salcombe	49	48	48·7	+1·7
	Scarborough	45	39	42·7	+0·9	IRELAND, N.W. ..	Sheephaven	49	44	45·9	+0·9
ENGLAND, E. ..	Shipwash Lightship	47	41	43·5	+5·7		Teelin	48	44	45·8	+1·0
	Margate‡	46	45	45·4	+4·8	IRELAND, S.W. ..	Cleggan	49	45	47·0	+2·9
ENGLAND, S.E. ..	Eastbourne‡	47	46	46·4	+4·2	IRELAND, E.	Seafield	54	49	51·7	+5·7
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881–1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

SECOND WEEK—January 5th to January 11th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	54	30	46·9	40·0	43·6	+ 5·6	20	+ 14	6	−30	4	− 1	0·53	−0·61	0·4	−0·3	6	− 6
Eastern.																		
1. SCOTLAND, EAST ...	56	26	45·2	37·1	41·4	+ 4·6	9	+ 4	21	−22	3	0	0·63	+0·09	0·5	−0·7	6	−10
2. ENGLAND, N.E.	53	30	44·9	37·6	41·4	+ 3·3	8	+ 1	18	−17	3	− 1	0·97	+0·51	0·4	−0·7	5	−10
3. ENGLAND, EAST ...	53	31	45·0	38·5	41·9	+ 4·6	8	+ 1	15	−26	3	− 1	0·71	+0·32	1·0	−0·5	12	− 6
4. MIDLAND COUNTIES ...	54	29	46·1	38·0	42·2	+ 4·8	18	+ 9	11	−30	4	0	1·00	+0·54	0·5	−0·8	7	−10
5. ENGLAND, S.E.	52	31	47·1	40·5	43·9	+ 4·8	20	+ 9	4	−28	3	0	0·81	+0·31	1·1	−0·3	14	− 5
Western.																		
6. SCOTLAND, WEST ...	52	30	46·1	38·8	42·6	+ 3·4	18	+ 10	9	−20	5	+ 1	1·24	+0·26	0·3	−0·8	4	−11
7. ENGLAND, N.W. ... * ...	55	29	47·0	39·6	43·4	+ 4·1	20	+ 11	7	−22	4	0	0·94	+0·32	0·9	−0·2	12	− 3
8. ENGLAND, S.W.	52	29	48·8	42·4	45·7	+ 4·7	26	+ 10	0	−23	5	+ 2	1·49	+0·71	1·0	−0·5	13	− 6
9. IRELAND, NORTH ...	55	28	48·2	39·8	44·2	+ 3·8	25	+ 13	6	−19	6	+ 2	1·55	+0·81	0·7	−0·6	9	− 8
10. IRELAND, SOUTH ...	55	26	49·9	40·7	45·5	+ 3·4	30	+ 11	4	−15	6	+ 2	2·32	+1·41	0·5	−1·0	7	−13
11. ENGLISH CHANNEL ...	53	41	49·9	45·3	47·7	+ 3·5	40	+ 16	0	− 9	5	+ 1	1·07	+0·38	1·1	−0·9	13	−10

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 6 Weeks, December 1st, 1912, to January 11th, 1913.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	71	+ 25	127	− 68	35	+ 4	11·59	+4·06	0·3	−0·4	5	− 5
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	64	+ 24	173	− 70	27	+ 3	4·53	+0·75	0·7	−0·3	10	− 5
2. ENGLAND, N.E.	58	19	*	*	*	*	114	+ 66	100	− 97	23	+ 1	3·20	+0 30	0·6	−0·6	9	− 7
3. ENGLAND, EAST ...	59	24	*	*	*	*	136	+ 82	68	−158	27	+ 3	3·41	+0·83	0·9	−0·5	11	− 7
4. MIDLAND COUNTIES ...	59	20	*	*	*	*	149	+ 89	84	−146	27	+ 4	4·98	+1·85	0·8	−0·4	10	− 6
5. ENGLAND, S.E.	59	22	*	*	*	*	183	+ 97	32	−133	26	+ 3	4·53	+1·18	1·1	−0·3	15	− 4
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	122	+ 58	76	− 80	35	+ 7	8·62	+1·70	0·4	−0·6	6	− 8
7. ENGLAND, N.W.	60	8	*	*	*	*	149	+ 81	55	−103	32	+ 7	5·99	+1·68	0·6	−0·4	8	− 6
8. ENGLAND, S.W.	57	22	*	*	*	*	191	+ 79	14	−102	34	+ 8	8·82	+3·06	0·9	−0·6	12	− 7
9. IRELAND, NORTH ...	58	20	*	*	*	*	168	+ 89	55	− 82	37	+ 8	7·49	+2·51	0·8	−0·4	11	− 6
10. IRELAND, SOUTH ...	58	20	*	*	*	*	202	+ 72	39	− 65	40	+12	8·03	+1·95	1·0	−0·5	13	− 7
11. ENGLISH CHANNEL ...	56	35	*	*	*	*	265	+ 86	0	− 37	36	+ 7	5·63	+0·64	1·2	−0·7	15	− 8

THE YEAR.—Aggregates, &c., for the Period of 2 Week, December 29th, 1912, to January 11th, 1913.

0. SCOTLAND, NORTH ...	54	30	*	*	*	*	31	+ 19	27	− 46	10	0	2·38	+ 0·15	0·5	−0·2	7	− 4
Eastern.																		
1. SCOTLAND, EAST ...	56	26	*	*	*	*	19	+ 9	47	− 40	7	0	1·07	− 0·07	0·6	−0·4	9	− 6
2. ENGLAND, N.E.	53	30	*	*	*	*	26	+ 13	27	− 45	6	− 2	1·32	+ 0·44	0·6	−0·5	8	− 6
3 ENGLAND, EAST ...	55	30	*	*	*	*	30	+ 15	23	− 60	7	− 1	0·96	+ 0·12	1·4	0·0	18	0
4. MIDLAND COUNTIES ...	55	26	*	*	*	*	40	+ 22	21	− 62	8	0	1·81	+ 0·80	0·7	−0·5	9	− 7
5. ENGLAND, S.E.	53	28	*	*	*	*	44	+ 21	9	− 55	7	0	1·25	+ 0·21	1·6	+0·2	20	+ 2
Western.																		
6. SCOTLAND, WEST ...	52	30	*	*	*	*	39	+ 23	16	− 44	10	+ 1	2·66	+ 0·59	0·4	−0·6	6	− 9
7. ENGLAND, N.W.	55	29	*	*	*	*	42	+ 23	12	− 47	9	+ 1	1·80	+ 0·50	0·8	−0·2	10	− 4
8. ENGLAND, S.W.	54	29	*	*	*	*	51	+ 19	1	− 45	11	+ 3	2·75	+ 1·06	1·3	−0·2	16	− 3
9. IRELAND, NORTH ...	55	28	*	*	*	*	50	+ 26	19	− 31	12	+ 3	2·34	+ 0·79	1·1	−0·1	14	− 2
10. IRELAND, SOUTH ...	55	26	*	*	*	*	59	+ 20	17	− 21	12	+ 3	3·12	+ 1·16	0·8	−0·7	10	− 9
11. ENGLISH CHANNEL ...	53	35	*	*	*	*	74	+ 24	0	− 18	11	+ 2	1·65	+ 0·16	1·6	−0·3	20	− 4

M.O., January 15, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 3. THIRD WEEK, SUNDAY, JANUARY 12TH, TO SATURDAY, JANUARY 18TH, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather continued unsettled, and precipitation was again frequent, but fair, dry intervals were not uncommon in most parts of England and Ireland. A good deal of snow was experienced over the northern districts early in the week, and a slight fall occurred as far south as Tunbridge Wells. Thunderstorms were reported at several places in the south-west and south on the 15th.

Temperature was below the average, the deficit being about 5° in Scotland E. and W., England N.E. and Ireland S., and about 4° in England N.W. and Ireland N. In England E., however, it was only 0°·6, and in England S.E. no more than 0°·4. The highest of the maxima were recorded mostly in the latter half of the week, and ranged from 51° in the English Channel and 50° in Ireland to 44° in Scotland N. and England N.E., and to 43° in Scotland E. Early in the week the maxima were below 32° at many stations in North Britain. The lowest of the minima, which occurred generally on the 13th or 14th, ranged from 10° in England N.W. (at Newton Rigg on the 13th) and 11° in Scotland E. (at West Linton on the 14th) to 27° in Scotland N. and to 35° in the English Channel. The lowest grass readings were 0° (zero) at Newton Rigg, 5° at West Linton, 6° at Harrogate and Worksop, and 10° at Rauceby and West Witton. In various parts of the Kingdom the earth temperature was below the normal at a depth of 1 foot, but at all stations it was above it at a depth of 4 feet.

Mean Temperature of the Sea. On most parts of the coast the water was colder than during the corresponding week of last year, but considered generally it was warm for the time of the year. The mean values ranged from 49° at Newquay and Scilly to a little below 40° at Cromarty and Burnmouth.

Rainfall was less than the average in Scotland N., England N.W., and the Midland Counties, and about equal to it in Scotland E. and W. and Ireland N. Elsewhere it was in excess, the difference being large in the southern and south-western districts. At a few stations in the north-west of Scotland the precipitation was very slight, but at Cally (Gatehouse) 1·20 in. was recorded on the 14th and 1·35 in. on the 15th. The fall of snow in the north of England early in the week considerably increased the depth of that already lying. At Cockle Park, Morpeth, its depth on the 13th was 18 inches.

Bright Sunshine exceeded the normal except in England N.E. and over Scotland, the excess being considerable in many parts of England. In England S.E. the mean daily duration was 2·6 hours and the percentage of the possible amount 30, in the English Channel the corresponding values were 2·2 hours and 27, and in England E. 1·9 hours and 24. In Scotland and the north-east of England the percentage of the possible duration was 8 or less, and the mean daily figure about 0·5 hour.

Barometer and Wind. Cyclonic systems from the westward and south-westward again encroached on, or travelled directly over these Islands, and the general direction of the wind consequently remained between South-East and South-West or West. The barometric gradient, however, was not often steep, and gales over a large area were less frequent than during the preceding week. Along the western seaboard, and on the north and north-east coasts of Scotland, the wind was stronger than elsewhere, gale force being reached on several occasions, and on Thursday a gale was experienced on the English Channel.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. ii.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Deficient	Deficient	Moderate	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate
	Rainfall ...	Light	Moderate	Moderate	Heavy	Light	Heavy	Moderate	Moderate	Heavy	Moderate	Heavy	Heavy
	Sunshine ...	Moderate	Scanty	Scanty	Moderate	Moderate	Abundant	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 7 weeks from Dec. 1st, 1912.	Warmth ...	3 * 1	3 * 2	4 * 2	4 * 0	5 * 1	5 * 0	5 * 2	5 * 1	5 * 1	6 * 1	5 * 1	5 * 0
	Rainfall ...	4 * 2	3 * 1	2 * 1	3 * 1	3 * 1	3 * 0	3 * 1	3 * 1	5 * 1	3 * 0	3 * 0	3 * 1
	Sunshine ...	0 * 3	0 * 3	1 * 5	1 * 4	1 * 4	2 * 2	0 * 5	1 * 1	0 * 4	0 * 3	0 * 5	0 * 5

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(28175—24.) Wt. 173—814. 450. 1/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean	Difference from Average.	Mean.	Difference from Average.								
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*41*	*16, 17*	*33*	*14th*	*39·7*	*34·9*	*37·4*	—	*0*	*32*	•	•												
a, Islands .. *a* Lerwick	42	16, 18	32	13, 14	40·4	35·1	37·9	− 1·2	0	29	•	•	37·9	•	•	•	7	*0·74*	—	*0·5*	—	*8*	—	*Baltasound.*
a Stornoway	44	17th	34	15th	41·9	37·7	39·9	+ 0·8	0	15	•	•	•	•	•	•	7	1·13	—	0·3	− 0·6	5	− 9	Deerness.
a Castlebay, Barra Isd.											•	•	•	•	•	•	3	0·11	− 1·02	0·6	− 0·3	9	− 4	Stornoway.
																	—	—	—	•	•	•	•	*Castlebay.*
a Wick	43	15th	33	14th	41·0	36·0	38·6	+ 0·4	0	24	•	•	•	•	•	•								
b, Main- *p* Strathpeffer ..	41	16th	27	14, 18	38·9	31·4	35·3	− 1·5	0	47	•	•	•	•	•	•	5	0·46	− 0·12	•	•	•	•	
land. *p* Glencarron ..	42	16th	30	18th	38·9	32·9	36·0	− 0·6	0	42	•	•	•	•	•	•	1	0·06	− 0·65	0·6	− 0·5	9	− 7	Strathpeffer.
p Fort Augustus..	43	16, 17	30	14th	40·9	34·3	37·7	0·0	0	30	•	•	•	•	•	•	1	0·18	− 2·11	•	•	•	•	
p Fort William ..	43	18th	29	14th	40·6	34·6	37·7	− 1·7	0	30	•	•	•	•	•	•	2	0·06	− 1·20	0·4	− 0·2	6	− 3	Fort Augustus.
																	4	0·18	− 1·94	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle..	41	16th	23	14th	37·9	31·7	34·9	− 3·2	0	50	•	•					5	16	—	—	—	0·1	—	1	—	Crathes S.
a Nairn	40	15, 16, 18	24	15th	38·3	29·3	34·0	− 3·4	0	56	•	•					3	0·62	+ 0·14	*0·9*	—	*13*	—	*Gordon Castle.*
a Aberdeen ..	43	15th	27	14th	40·0	34·0	37·1	− 0·6	0	34	•	•			41·0	+1·3	2	0·05	− 0·37	0·9	—	13	—	Nairn.
a Balmoral ..	29	15th	21	18th	36·1	27·0	31·7	− 2·5	0	72	7	19	•	•	•	•	6	0·85	+ 0·33	0·2	− 1·4	3	− 20	Aberdeen.
p Crieff	37	15th	25	14, 15	34·3	28·7	31·6	− 5·6	0	73	•	•	•	•	•	•	4	1·02	+ 0·33	•	•	•	•	Balmoral.
a Leith	42	18th	25	14, 15	38·9	30·0	34·6	− 4·5	0	52	•	•	•	•	•	•	6	0·61	− 0·30	•	—	•	•	Balruddery.
p West Linton ..	37	15, 16, 18	11	14th	34·6	23·1	29·1	− 7·1	0	90	7	5	•	•	•	•	4	0·22	− 0·15	•	—	•	•	
p Marchmont ..	39	16th	15	14th	34·9	25·6	30·4	− 6·2	0	81	6	13	35·4	−0·7	•	•	4	0·28	—	*0·4*	—	*5*	—	*West Linton.*
																	3	0·82	+ 0·31	0·5	− 0·9	7	−12	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	41	15th	22	14th	37·7	28·6	33·3	− 4·9	0	61	5	17	34·7	−1·7	40·7	+1·3	4	0·62	+ 0·09	0·1	—	1	—	Cockle Park.
a Shields	42	15th	24	14th	38·4	29·4	34·1	− 4·7	0	55	•	•	•	•	•	•	5	1·26	+ 0·90	•	•	•	•	*Newcastle.*
a Durham	37	15, 18	19	13th	34·7	27·4	31·2	− 5·9	0	76	3	30	•	•	•	•	4	0·37	+ 0·03	0·0	− 1·4	0	−18	Durham.
a, North .. *p* Rounton	38	15, 16	21	14th	36·0	28·3	32·3	− 4·7	0	68	5	22	36·8	•	•	•	5	0·43	+ 0·03	•	•	•	•	Rounton.
a West Witton	*39*	*18th*	*17*	*14th*	*34·4*	*25·4*	*30·1*	—	*0*	*83*	7	10	37·3	•	41·6	•	*4*	*0·53*	—	•	•	•	•	*West Witton.*
p Scarborough	44	17th	25	14th	40·1	31·4	35·9	− 2·5	0	43	•	•	•	•	43·0†	•	4	0·82	+ 0·38	0·5	—	7	—	Scarborough.
p York	38	15, 16, 18	22	14th	36·6	29·4	33·1	− 4·9	0	62	•	•	38·5	+0·5	43·5	+2·3	7	0·29	− 0·08	0·0	− 1·0	0	−13	York.
a Spurn Head	42	15, 16, 17	30	14th	40·7	34·6	37·8	− 0·8	0	29	5	24	37·8	+1·0	43·0	+0·5	5	0·53	+ 0·25	*0·1*	—	*1*	—	*Hull.*
b South .. *a* Lincoln	42	15th	19	14th	38·3	28·0	33·4	− 3·8	0	60	•	•	35·2	−1·5	42·7	+1·4	3	0·28	− 0·09	•	•	•	•	Lincoln.
a Fulbeck	44	15th	18	14th	38·1	27·6	33·1	− 4·3	0	62	6	10	37·5	−0·4	44·6	+1·7	5	0·66	—	1·4	—	18	—	Rauceby.
											•	•	•	•	•	•	—	—	—	1·5	—	19	—	Skegness.
3. ENGLAND, E.											3	21	38·7	+1·6	43·7	+2·1	—	—	—	*2·0*	—	*25*	—	*Lowestoft.*
p Cromer	45	16th	24	14th	41·3	31·4	36·6	− 0·3	0	38	•	•	•	•	•	•	7	0 44	—	1·5	—	19	—	Cromer.
p Little Massingham ..	43	15, 16	20	14th	38·0	29·1	33·7	− 3·0	0	58	•	•	•	•	•	•	5	0 34	− 0·11	1·5	0·0	19	0	Lit. Massingham
a, North .. *a* Yarmouth	46	15th	28	14th	42·7	35·1	39·1	+ 1·7	2	26	•	•	38·4	+1·3	44·7	+2·1	5	0·66	+ 0·29	2·0	—	25	—	Yarmouth.
a Norwich	45	15th	24	13, 14	40·6	31·4	36·2	− 1·0	0	41	4	18	36·9	•	•	•	6	0·54	—	*1·9*	—	*24*	—	*Norwich.*
p Geldeston	47	15, 16	26	13th	43·1	33·6	38·5	+ 0 8	3	31	•	•	•	•	•	•	5	0·77	+ 0·43	2·3	+ 0·6	26	+ 5	Geldeston.
p Cambridge	48	15th	24	13th	42·4	31·4	37·1	− 0·4	1	39	7	19	38·6	+1·0	44·6	+2·3	4	0·36	+ 0·05	2·7	+ 1·1	33	+13	Cambridge.
a Felixstowe	*45*	*15th*	*28*	*13th*	*42·7*	*34·6*	*38·8*	+ *0·6*	*2*	*27*	•	•	•	•	•	•	*6*	*0·59*	—	*2·3*	—	*29*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	45	15th	30	13, 14	42·3	35·1	38·8	+ 0·7	1	25	2	23	41·1	+1·7	45·5	+1·4	6	0·66	—	2·0	—	25	—	Clacton.
a Rothamsted	48	15th	23	13, 14	44·1	29·1	36·9	− 0·3	6	49	•	•	•	•	•	•	7	0·37	− 0·08	2·2	+ 0·6	27	+ 7	Rothamsted.
a Shoeburyness	*47*	*15th*	*27*	*13th*	*44·3*	*33·9*	*39·3*	+ *0·7*	*6*	*31*	6	20	40·4	+2·0	•	•	*6*	*0·43*	+ *0·15*	*2·5*	—	*31*	—	*Southend.*
p Tottenham	49	15th	27	13th	45·0	34·4	39·9	+ 1·2	8	30	5	22	•	•	45·9	+2·2	5	0·61	—	1·3	—	16	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	39	18th	13	14th	34·9	25·7	30·5	− 6·3	0	81	3	19	37·1	−0·5	43·1	+1·6	—	—	—	*0·7*	—	*9*	—	*Huddersfield.*
a Bawtry	39	18th	17	13, 14	36·1	26·1	31·3	− 6·4	0	75	6	6	37·8	−0·2	41·7	+1·5	4	0·38	− 0·12	0·5	—	7	—	Harrogate.
p Buxton	*39*	*18th*	*16*	*14th*	*35·6*	*27·3*	*31·6*	− *3·7*	*0*	*73*	7	6	37·9	•	42·8	•	3	0·24	− 0·13	0·7	− 0·5	9	− 6	Worksop.
a East .. *a* Nottingham	43	15th	16	14th	38·3	28·9	32·8	− 4·9	0	64	5	11	38·0	+0·7	43·6	+1·3	*6*	*0·49*	− *0·58*	*0·8*	—	*10*	—	*Buxton.*
p Birmingham, Edgbsn.	43	18th	26	14th	39·4	31·6	35·7	− 2·0	0	64	4	16	35·6	−0·7	42·1	+2·2	5	0·14	− 0·27	0·9	—	11	—	Nottingham.
a Raunds	45	16th	20	13th	41·0	28·1	34·8	− 2·2	0	50	6	18	39·6	•	46·1	•	6	0·40	+ 0·01	2·9	+ 1·4	36	+17	Oxford.
p Oxford	47	15th	29	13th	42·7	33·7	38·4	− 0·5	2	31	5	24	•	•	•	•	5	0·34	—	•	•	•	•	Raunds.
											6	22	37·7	+0·5	43·6	+1·9	—	—	—	1·2	—	15	—	Sheffield.
a Cheadle	40	15, 18	22	12th	36·7	28·6	32·8	− 3·8	0	64	7	20	•	•	•	•	5	0·44	− 0·11	•	•	•	•	Cheadle.
b, West .. *p* Shrewsbury	48	18th	21	13, 14	42·9	28·9	36·2	− 2·0	3	49	7	19	•	•	•	•	3	0·15	—	•	•	•	•	Shrewsbury.
a Hereford	45	15th	23	13th	41·0	29·3	35·4	− 2·8	0	46	6	18	•	•	•	•	3	0·43	− 0·07	•	•	•	•	Hereford.
a Cirencester	45	15th	23	13th	40·0	28·1	34·3	− 2·9	0	54	4	23	39·8	•	44·6	•	5	0·48	− 0·03	1·8	+ 0·3	22	+ 4	Cirencester.
a Bath	47	15th	27	13th	43·4	30·6	37·3	− 2·1	4	43	•	•	41·3	+1·4	47·4	+2·8	7	0·71	+ 0·18	1·9	—	24	—	Bath.
p Kew	46	15, 16	24	13th	43·3	33·9	38·8	− 0·1	4	31	5	21	40·1	+1·0	47·0	+3·1	—	—	—	•	•	•	•	Canterbury
a Marlborough	45	15th	22	14th	42·3	29·9	36·4	− 1·9	1	45	5	13	40·8	+2·7	46·3	+2·7	5	0·41	+ 0·04	2·4	+ 1·1	30	+14	Kew.
a Margate	47	18th	29	13th	44·4	35·4	40·1	+ 1·1	7	26	6	17	•	•	46·6	•	5	0·51	− 0·04	†1·9	+ 0·5	23	+ 6	Marlborough.
a Wisley, Surrey ..	47	15th	26	13, 14	44·1	32·3	38·4	− 0·8	6	37	6	17	39·7	+1·4	45·0	+2·2	6	1·13	+ 0·76	2·1	+ 0·6	26	+ 8	Margate.
a Swarraton	47	15th	23	13th	42·9	29·1	36·3	− 1·2	3	48	5	19	42·2	+3·6	47·0	+3·0	5	0·51	—	3·0	—	37	—	Wisley
a Tunbridge Wells ..	46	15, 16	28	13th	42·9	32·9	38·1	+ 0·6	3	34	4	23	39·1	+2·0‡	•	•	6	0·65	+ 0·10	3·1	—	37	—	Worthing.
a Dungeness	48	15, 18	29	14th	46·4	36·9	41·8	+ 2·6	12	22	•	•	•	•	•	•	5	1·24	+ 0·66	3·5	+ 2·0	43	+25	Tunbridge Wells.
p Hastings..	48	15, 16	32	13th	45·7	37·0	41·5	+ 2·1	10	21	2	22	40·7	•	45·9	•	4	1·31	+ 0·91	2·7	—	33	—	Littlestone.
p Southampton	49	15th	26	13th	45·4	32·9	39·4	− 0·6	10	36	5	22	•	•	•	•	6	1·89	+ 1·38	*3·0*	+ *1·1*	*36*	+*13*	*Hastings.*
a Ventnor	49	13, 17, 18	34	13th	47·9	38·4	43·3	+ 1·6	24	10	•	•	•	•	•	•	6	1·05	+ 0·49	2·3	+ 0·6	28	+ 7	Southampton
																	6	0·87	+ 0·31	2·5	+ 0·6	30	+ 7	Ventnor.
											4	20	42·1	+1·8	47·4	+2·5	—	—	—	*2·9*	—	*35*	—	*Portsmouth.*
											•	•	42·7	•	47·2	•	—	—	—	2·4	+ 0·6	29	+ 7	Eastbourne.
											•	•	•	•	•	•	—	—	—	•	•	•	•	*Bournemouth.*
LONDON.											2	25	•	•	45·4	•	—	—	—	*2·8*	+ *1·1*	*34*	+*13*	*Brighton.*
a Westminster	*49*	*15th*	*28*	*13, 14*	*45·3*	*33·7*	*39·7*	+ *0·9*	*9*	*33*	4	26	•	•	•	•	*5*	*0·40*	+ *0·02*	*1·5*	+ *0·9*	*19*	+*11*	*Westminster.*
a Greenwich	*48*	*15th*	*26*	*13th*	*44·0*	*32·0*	*38·2*	− *0·5*	*6*	*38*	5	18	•	•	•	•	*6*	*0·62*	+ *0·26*	*2·5*	+ *1·2*	*31*	+*15*	*Greenwich.*
a Hampstead	*46*	*15th*	*28*	*14th*	*42·3*	*32·7*	*37·7*	—	*1*	*34*	6	21	•	•	•	•	*6*	*0·52*	—	*1·7*	—	*21*	—	*Hampstead.*
a Camden Square ..	*48*	*15th*	*27*	*13th*	*43·9*	*32·8*	*38·6*	—	*5*	*35*	4	23	•	•	•	•	*5*	*0·44*	—	*1·5*	—	*19*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. .. S	40	18th	27	14th	37·3	31·7	34·6	− 4·5	0	52	•	•	•	•	•	•	5	1·07	+ 0·02	•	•	•	•	
p Glasgow	40	16, 18	23	14th	37·6	31·1	34·5	− 4·0	0	53	5	18	•	•	•	•	5	0·49	− 0·24	0·0	− 0·7	0	−10	Glasgow.
p Rothesay	41	15, 16, 18	29	14th	38·6	33·9	36·3	− 3·3	0	40	•	•	•	•	43·1	+1·0	6	1·13	+ 0·15	•	•	•	•	
a Kilmarnock	44	18th	23	14th	38·9	30·1	34·7	− 5·0	0	51	•	•	•	•	•	•	5	0·37	—	*1·1*	—	*15*	—	*Kilmarnock.*
a Colmonell	46	18th	21	14th	39·4	28·9	34·4	− 5·3	0	53	4	18	•	•	•	•	5	1·07	+ 0·07	•	•	•	•	
p Dumfries	41	18th	17	14th	36·9	28·3	32·8	− 5·5	0	64	7	12	37·1	•	42·4	•	6	0·73	− 0·03	*0·5*	—	*7*	—	*Dumfries.*
p Cally, Gatehouse ..	44	18th	19	14th	38·6	29·9	34·4	− 3·3	0	53	•	•	•	•	•	•	5	2·74	+ 1·72	•	•	•	•	
b I. OF MAN																								
p Douglas	46	12, 18	29	13th	43·9	35·7	40·0	− 0·7	5	25	3	23	•	•	•	•	4	0·88	+ 0·10	2·1	+ 0·5	27	+ 7	Douglas.
											7	19	37·5	+0·2	42·1	+0·5	—	—	—	*0·5*	—	*6*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											6	23	•	•	•	•	—	—	—	2·9	—	37	—	Hoylake.
p Aspatria	48	17th	24	13, 14	39·9	30·4	35·3	− 2·6	0	47	6	15	38·7	•	44·8	•	3	0·23	− 0·40	1·9	—	25	—	Aspatria.
p Newton Rigg	39	16, 18	10	13th	36·1	24·7	30·6	− 6·3	0	80	7	0	37·7	−0·4	42·0	+1·4	5	0·45	− 0·29	0·3	− 1·0	4	−13	Newton Rigg.
p Stonyhurst	43	18th	25	13th	38·7	31·7	35·3	− 2·7	0	47	7	19	•	•	•	•	5	0·34	− 0·60	0·3	− 0·8	4	−10	Stonyhurst.
p Blackpool											•	•	•	•	•	•	—	—	—	•	•	•	•	Blackpool.
p Manchester (Whit Pk.)	44	15, 18	27	14th	40·4	32·9	36·8	− 2·3	0	36	5	17	•	•	•	•	5	0·23	—	*0·5*	*0·0*	*6*	*0*	*Whit. Park.*
a Liverpool (Bidston) ..	41	15th	27	14th	38·6	31·0	35·0	− 4·9	0	49	•	•	•	•	•	•	5	0·29	− 0·19	*2·8*	—	*36*	—	*Liverpool.*
a Hawarden Bridge ..	45	15, 18	24	14th	40·7	30·6	35·9	− 4·3	0	43	6	18	35·3	−1·7	42·0	+1·5	3	0·33	− 0·04	*1·7*	+ *0·4*	*22*	+ *5*	*Southport.*
b, NORTH WALES.											1	26	37·2	−0·6	44·6	+2·0	—	—	—	*0·2*	—	*3*	—	*Manchester (City).*
p Llandudno	46	18th	30	14th	39·7	33·7	36·8	− 4·7	0	36	•	•	•	•	•	•	5	0·19	− 0·38	3·5	+ 2·0	45	+26	Llandudno.
a Holyhead	48	18th	32	14th	44·1	36·3	40·4	− 1·5	6	23	•	•	•	•	•	•	5	0·44	− 0·21	2·8	—	35	—	Aberdovey.
p Bettws-y-Coed ..	45	18th	25	15th	41·6	30·9	36·5	− 4·2	0	39	6	24	38·9	−0·4	45·1	+1·6	4	0·68	—	2·5	—	32	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	°/₀	°/₀	
8. *a*, SOUTH WALES.																	*	*	*	2·8	—	35	—	Aberystwyth.
a Llangammarch Wells	43	18th	20	13th	39·9	28·7	34·5	− 2·7	0	53	7	18	39·0	−0·5	45·8	+1·4	7	1·62	—	1·5	—	19	—	Llangammarch
a Pembroke	49	12th	32	14th	46·9	37·6	42·4	− 0·2	21	12	*	*	*	*	*	*	7	1·71	+ 0·96	0·8	− 0·9	10	−11	Pembroke.[Wells
p Cardiff	47	15th	27	13th	42·0	32·1	37·3	− 2·3	0	33	5	21	40·5	+2·2	45·8	+2·6	7	0·89	+ 0·08	*1·2*	—	*15*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	48	15th	30	13th	42·7	33·4	38·2	− 1·3	2	32	6	26	*	*	*	*	6	0·97	+ 0·34	*1·4*	—	*17*	—	*Clifton.*
a Shaftesbury	44	15th	29	13, 14	41·1	31·4	36·4	− 1·2	0	39	*	*	39·7	*	45·0	*	6	0·63	+ 0·04	*	*	*	*	Shaftesbury.
a Arlington	45	15th	27	13, 14	42·3	31·1	36·9	− 2·4	1	33	*	*	*	*	*	*	6	1·41	+ 0·37	*	*	*	*	Arlington.
a Newquay	*49*	*17th*	*31*	*14th*	*46·1*	*35·6*	*41·1*	*− 2·6*	*11*	*27*	*	*	44·0	*	*	*	7	*1·02*	—	2·5	+ 0·8	30	+10	Newquay.
a Cullompton	47	18th	26	13, 14	43·9	28·7	36·6	− 3·0	5	50	7	22	42·4	*	*	*	7	1·11	+ 0·41	1·1	− 0·4	13	− 5	Cullompton.
a Portland	49	14, 15, 17	36	13th	47·7	40·1	44·1	+ 2·3	23	5	*	*	*	*	*	*	5	0·67	—	*2·2*	—	*27*	—	*Weymouth.*
p Plymouth	49	17, 18	29	14th	46·8	34·3	40·8	− 1·4	13	32	7	22	42·8	+1·4	*	*	7	1·11	− 0·64	1·6	0·0	19	0	Plymouth.
p Falmouth	47	17, 18	34	14th	45·1	37·3	41·4	− 2·1	9	20	*	*	*	*	*	*	7	1·73	+ 0·77	2·7	+ 0·9	33	+11	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	44	18th	31	14, 15	40·1	32·9	36·6	− 4·3	0	38	*	*	*	*	*	*	4	0·15	− 0·45	*	*	*	*	* *
a Blacksod Point ..	50	17th	32	13th	43·3	36·0	39·8	− 2·8	4	23	*	*	*	*	*	*	6	1·25	+ 0·13	*	*	*	*	* *
p Markree Castle ..	45	14th	24	13th	41·1	30·3	35·9	− 3·5	0	43	6	18	39·7	*	44·8	*	4	0·81	− 0·03	1·5	+ 0·2	20	+ 3	Markree Castle.
a Birr Castle	45	18th	26	13, 14	41·3	30·4	36·1	− 3·5	0	41	*	*	*	*	*	*	6	0·48	− 0·15	*1·7*	+ *0·1*	*22*	+ *1*	*Birr Castle.*
b, East .. { *p* Armagh	48	14th	21	15th	42·6	31·4	37·2	− 2·3	2	39	4	19	38·8	−1·2	44·1	+0·9	3	0·51	− 0·06	1·9	+ 0·4	25	+ 5	Armagh.
a Donaghadee	46	18th	27	13th	42·6	33·3	38·1	− 2·4	2	32	*	*	*	*	*	*	5	1·31	+ 0·73	*	*	*	*	* *
											6	21	40·4	−0·1	44·9	+1·1	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											6	13	*	*	*	*	—	—	—	2·2	+ 0·3	28	+ 4	Phœnix Park.
a, East .. { *p* Dublin, City	46	17, 18	28	13th	43·6	33·6	38·8	− 2·7	4	32	3	25	*	*	*	*	5	1·30	+ 0·80	*	*	*	*	Dublin City.
a Kilkenny	46	18th	22	13th	41·7	28·4	35·3	− 4·8	0	47	*	*	*	*	*	*	6	0·90	+ 0·13	*	*	*	*	* *
a Waterford	50	17th	26	13th	44·3	31·3	38·1	− 3·0	6	41	*	*	*	*	*	*	6	1·45	+ 0·57	*	*	*	*	* *
a Birr Castle	45	18th	26	13, 14	41·3	30·4	36·1	− 3·5	0	41	*	*	*	*	*	*	6	0·48	− 0·15	1·7	+ 0·1	22	+ 1	Birr Castle.
a Foynes	45	17, 18	29	13, 15	42·4	32·1	37·5	− 4·4	1	37	*	*	*	*	*	*	7	0·94	+ 0·10	*	*	*	*	* *
a Cahir	46	18th	25	13, 14	41·1	29·0	35·3	− 6·0	0	47	*	*	*	*	*	*	6	1·57	—	*	*	*	*	* *
b, West .. { *a* Killarney	47	17, 18	30	14th	43·6	34·9	39·4	− 3·1	4	27	*	*	*	*	*	*	7	2·34	+ 0·93	*	*	*	*	* *
a Valencia	49	17th	32	14th	45·9	35·6	41·0	− 3·5	11	27	*	*	*	*	*	*	7	3·13	+ 1·88	1·6	0·0	20	0	Valencia.
a Roche's Point	49	17th	31	13, 15	45·3	35·1	40·4	− 3·1	9	28	*	*	*	*	*	*	7	1·51	+ 0·48	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	49	14, 17, 18	37	14th	47·6	39·3	43·6	− 2·1	23	8	*	*	*	*	*	*	7	1·37	+ 0·67	2·2	+ 0·3	26	+ 4	Scilly.
a Jersey, St. Aubins ..	51	15th	35	14th	48·4	39·1	43·9	+ 1·3	25	8	*	*	*	*	*	*	7	1·58	+ 0·91	2·1	− 0·1	24	− 1	St. Heliers.
a Guernsey (Villa Carey)	49	17th	36	13, 14	47·1	39·4	43·4	+ 0·2	21	7	1	29	44·4	+1·2	48·3	+1·8	7	1·73	+ 0·99	2·4	+ 0·7	29	+ 8	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·8 hrs. 34 °/₀; Ramsgate, 3·1 hrs. 38 °/₀; Rhyl, 3·7 hrs. 47 °/₀; Salcombe, 2·0 hrs. 24 °/₀; Tenby, 1·4 hrs. (−0·5) 17 °/₀ (− 6 °/₀); Torquay, 2·2 hrs. (+0·3) 27 °/₀ (+4 °/₀).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, January 18th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	43	43	43·0	−0·2	SCOTLAND, W. ..	{ Lamlash	47	41	43·4	−1·8
	{ Kirkwall	43	40	41·0	0·0		{ Ballantrae	44	42	43·1	+0·7
	{ Wick	?	?	?		ENGLAND, N.W. ..	Port Erin	47	45	45·9	−0·1
	{ Cromarty	41	38	39·5	−0·6	ENGLAND, S.W. ..	{ Newquay	50	49	49·3	+3·1
SCOTLAND, E. ..	{ Pennan Bay	43	39	40·3	+0·2		{ Scilly	50	49	49·1	—
	{ Aberdeen, Cove Bay	43	42	42·9	+3·4		{ Plymouth‡	47	46	46·9	−0·4
ENGLAND, N.E. ..	{ Burnmouth, Berwick	40	38	?9·2	−1·0		{ Salcombe	48	45	46·9	+0·2
	{ Scarborough	44	40	42·3	+1·1	IRELAND, N.W. ..	{ Sheephaven	46	44	44·8	−0·1
ENGLAND, E. ..	{ Shipwash Lightship	46	40	44·1	+3·7		{ Teelin	46	41	43·0	−0·8
	{ Margate‡	45	42	43·6	+3·6	IRELAND, S.W. ..	{ Cleggan	47	44	45·4	+1·2
ENGLAND, S.E. ..	Eastbourne‡	46	45	45·7	+4·1		{ Seafield	52	47	49·7	+4·0
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRD WEEK—January 12th to January 18th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	44	27	40·4	34·6	37·6	− 1·3	0	− 7	31	− 1	3	− 2	0·31	−1·14	0·5	−0·3	7	− 4
Eastern.																		
1. SCOTLAND, EAST ...	43	11	36·9	28·7	32·9	− 5·2	0	− 8	64	+27	4	0	0·56	−0·02	0·4	−1·0	6	−14
2. ENGLAND, N.E.	44	18	37·8	29·4	33·8	− 5·1	0	− 8	57	+25	5	+ 2	0·58	+0·18	0·6	−0·8	8	−10
3. ENGLAND, EAST ...	49	20	42·2	32·3	37·5	− 0·6	1	− 7	36	− 1	6	+ 3	0·53	+0·17	1·9	+0·3	24	+ 4
4. MIDLAND COUNTIES ...	48	13	39·7	28·9	34·5	− 3·8	0	− 10	53	+17	5	+ 2	0·36	−0·08	1·5	+0·1	19	+ 1
5. ENGLAND, S.E.	49	22	44·5	33·9	39·4	− 0·4	7	− 4	32	+ 4	5	+ 1	0·96	+0·47	2·6	+1·0	31	+12
Western.																		
6. SCOTLAND, WEST ...	46	17	38·9	31·2	35·2	− 5·1	0	− 11	48	+24	5	+ 1	1·06	0·00	1·1	−0·1	14	− 2
7. ENGLAND, N.W.	48	10	40·3	31·4	36·0	− 4·0	0	− 9	42	+16	4	0	0·35	−0·33	2·0	+0·8	26	+11
8. ENGLAND, S.W.	49	20	43·8	33·5	38·9	− 2·7	5	− 12	33	+13	7	+ 3	1·19	+0·41	1·9	+0·3	23	+ 4
9. IRELAND, NORTH ...	50	21	41·8	32·4	37·3	− 3·7	0	− 14	33	+11	5	0	0·75	−0·01	1·7	+0·3	22	+ 5
10. IRELAND, SOUTH ...	50	22	43·2	32·3	38·0	− 4·8	3	− 18	37	+21	6	+ 2	1·51	+0·66	1·8	+0·2	23	+ 3
11. ENGLISH CHANNEL ...	51	35	47·7	39·3	43·6	− 0·8	23	− 2	8	+ 1	7	+ 2	1·56	+0·94	2·2	+0·2	27	+ 2

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 7 Weeks, December 1st, 1912, to January 18th, 1913.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	71	+ 18	158	− 69	38	+ 2	12·12	+3·14	0·4	−0·3	6	− 5
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	64	+ 16	237	− 43	31	+ 3	5·09	+0·73	0·6	−0·5	10	− 6
2. ENGLAND, N.E.	58	18	*	*	*	*	114	+ 58	157	− 72	28	+ 3	3·78	+0·48	0·6	−0·6	9	− 8
3. ENGLAND, EAST ...	59	20	*	*	*	*	137	+ 75	104	−159	33	+ 6	3·94	+1·00	1·0	−0·4	13	− 5
4. MIDLAND COUNTIES ...	59	13	*	*	*	*	149	+ 79	137	−129	32	+ 6	5·34	+1·77	0·9	−0·3	11	− 5
5. ENGLAND, S.E.	59	22	*	*	*	*	190	+ 93	64	−129	31	+ 4	5·49	+1·65	1·4	−0·1	17	− 1
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	122	+ 47	124	− 56	40	+ 8	9·68	+1·71	0·5	−0·5	7	− 7
7. ENGLAND, N.W.	60	8	*	*	*	*	149	+ 72	97	− 87	36	+ 7	6·34	+1·35	0·8	−0·2	11	− 3
8. ENGLAND, S.W.	57	20	*	*	*	*	196	+ 67	47	− 89	41	+11	10·01	+3·47	1·1	−0·4	14	− 5
9. IRELAND, NORTH ...	58	20	*	*	*	*	168	+ 75	88	− 71	42	+ 8	8·24	+2·50	0·9	−0·3	13	− 4
10. IRELAND, SOUTH ...	58	20	*	*	*	*	205	+ 54	76	− 44	46	+14	9·54	+2·61	1·1	−0·4	14	− 6
11. ENGLISH CHANNEL ...	56	35	*	*	*	*	288	+ 84	8	− 36	43	+ 9	7·19	+1·58	1·4	−0·5	17	− 7

THE YEAR.—Aggregates, &c., for the Period of 3 Weeks, December 29th, 1912, to January 18th, 1913.

0. SCOTLAND, NORTH ...	54	27	*	*	*	*	31	+ 12	58	− 47	13	− 2	2·91	− 0·77	0·5	−0·2	7	− 4
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	19	+ 1	111	− 13	11	0	1·63	− 0·09	0·5	−0·7	8	− 9
2. ENGLAND, N.E.	53	18	*	*	*	*	26	+ 5	84	− 20	11	0	1·90	+ 0·62	0·6	−0·6	8	− 7
3 ENGLAND, EAST ...	55	20	*	*	*	*	31	+ 8	59	− 61	13	+ 2	1·49	+ 0·29	1·6	+0·2	20	+ 2
4. MIDLAND COUNTIES ...	55	13	*	*	*	*	40	+ 12	74	− 45	13	+ 2	2·17	+ 0·72	1·0	−0·3	13	− 4
5. ENGLAND, S.E.	53	22	*	*	*	*	51	+ 17	41	− 51	12	+ 1	2·21	+ 0·68	1·9	+0·4	24	+ 6
Western.																		
6. SCOTLAND, WEST ...	52	17	*	*	*	*	39	+ 12	64	− 20	15	+ 2	3·72	+ 0·59	0·6	−0·5	8	− 6
7. ENGLAND, N.W.	55	10	*	*	*	*	42	+ 14	54	− 31	13	+ 1	2·15	+ 0·17	1·2	+0·1	16	+ 1
8. ENGLAND, S.W.	54	20	*	*	*	*	56	+ 7	34	− 32	18	+ 6	3·94	+ 1·47	1·5	0	18	0
9. IRELAND, NORTH ...	55	21	*	*	*	*	50	+ 12	52	− 20	17	+ 3	3·09	+ 0·78	1·3	0	17	0
10. IRELAND, SOUTH ...	55	22	*	*	*	*	62	+ 2	54	0	18	+ 5	4·63	+ 1·82	1·2	−0·3	15	− 5
11. ENGLISH CHANNEL ...	53	35	*	*	*	*	97	+ 22	8	− 17	18	+ 4	3·21	+ 1·10	1·8	−0·2	22	− 2

M.O., January 22, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 4. FOURTH WEEK, SUNDAY, JANUARY 19TH, TO SATURDAY, JANUARY 25TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The general conditions remained very unsettled. Precipitation occurrred on most days over the Kingdom as a whole, but Saturday was fine and dry over a large area. Over the northern districts snow or sleet was of frequent occurrence, and on Wednesday a little fell in the south also. Thunderstorms were experienced at some southern stations on Sunday, and at Brighton on Monday.

Temperature was again below the average in Scotland and the north of England, but above it elsewhere. In Scotland E. the deficit was nearly 5°, while in England S.E. the excess was only a trifle less than 3°. The highest of the maxima were recorded early in the week at most Scottish stations, but on the 23rd or 24th elsewhere, and ranged from 56° in Ireland S. and 55° in England N.W. to 44° in Scotland N. The lowest of the minima, which occurred in most places on the 22nd, varied from 18° in Scotland E. and 23° in England N.W. to 29° in Ireland, and to 35° in the English Channel. The lowest grass readings were 13° at Blackpool and 15° at Birmingham, Balmoral and West Linton. Over the major portion of the Kingdom the temperature of the soil was above the normal at a depth both of 1 foot and 4 feet.

Mean Temperature of the Sea. On the Scottish coasts the water was colder than during the corresponding week of last year, but on the English and Irish coasts it was warmer. Generally speaking the temperature of the sea was above the average. At Shipwash the difference was 6°, and at Seafield nearly 7°. The means for the period ranged from 52° at Seafield, and 49° at Scilly and Newquay to about 38°·5 at Burnmouth and Cromarty.

Rainfall was more than the normal except in Scotland N., the excess being very considerable generally. As much as 1·57 in. fell at Arlington and 1·21 in. at Cardiff on the 22nd, but as a rule the daily measurements were not very large.

Bright Sunshine was below the average in all districts except Scotland N. and W. In most localities the week was unusually sunless. In England E. and the Midland Counties the mean daily duration was only 0·2 hour and 0·3 hour respectively, and the percentage of the possible amount only 3, while in England S.E. the corresponding values were 0·5 hour and 6. The highest percentage of the possible, 19, was recorded in Scotland N. and Ireland S.

Barometer and Wind. During the earlier days of the week a well-defined disturbance travelled from west to east across Ireland, England, and the North Sea to Germany. On arriving over Ireland it was deep, and Southerly to Westerly gales were experienced on some parts of our south-western and southern coasts, but it subsequently became less intense and the winds decreased in force. Later in the week the centre of a depression of moderate intensity moved eastward across Scotland. This system maintained the wind in the East or South-East over the greater part of Scotland until Saturday, when, in its rear, a veering to the Northward or North-Westward occurred over the whole Kingdom.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 15.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Unusual	Deficient	Moderate	Moderate	Moderate	Moderate	Unusual
	Rainfall ...	Very light	Moderate	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy
	Sunshine ...	Abundant	Scanty	Scanty	Very scanty	Very scanty	Scanty	Moderate	Scanty	Scanty	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 8 weeks from Dec. 1st, 1912.	Warmth ...	3 * 2	3 * 3	4 * 2	4 * 0	5 * 1	6 * 0	5 * 3	5 * 1	5 * 1	6 * 1	5 * 1	6 * 0
	Rainfall ...	4 * 3	3 * 1	3 * 1	4 * 1	4 * 1	4 * 0	3 * 1	4 * 1	6 * 1	4 * 0	4 * 0	4 * 1
	Sunshine ...	1 * 3	0 * 4	1 * 6	1 * 5	1 * 5	2 * 3	0 * 5	1 * 2	0 * 5	0 * 4	0 * 5	0 * 6

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(28304—24.) Wt. 173—814. 450. 1/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands .. *p Baltasound* .. S	*41*	*19, 20, 25*	*27*	*22nd*	*39·4*	*32·3*	*36·0*	—	*0*	*42*	•	•	36·3		•		*5*	*0·25*	—	*1·4*	—	*21*	—	*Baltasound.*
a Lerwick	42	19, 20	31	22nd	39·9	35·3	37·7	− 1·3	0	30	•	•	•		•		5	1·33	—	1·2	+ 0·1	17	+ 1	Deerness.
a Stornoway	43	19, 20, 21	33	22nd	41·6	35·6	38·7	− 0·4	0	23	•	•	•		•		4	0·25	− 0·86	1·7	+ 0·5	23	+ 7	Stornoway.
a Castlebay, Barra Isd. .	*46*	*19, 20, 21*	*35*	*25th*	*43·7*	*37·9*	*40·9*	− 0·2	*5*	*16*	•	•					*5*	*0·93*	—	*1·9*	—	*25*	—	*Castlebay.*
a Wick	43	20th	32	24, 25	40·1	34·7	37·5	− 0·6	0	32	•	•	•	•	•	•	4	0·24	− 0·33	•	•	•	•	
b, Mainland. *p* Strathpeffer	41	21st	27	22nd	38·0	29·4	33·9	− 3·1	0	57	•	•	•	•	•	•	3	0·12	− 0·58	1·9	+ 0·6	25	+ 8	Strathpeffer.
p Glencarron ..	40	20th	25	23, 25	37·5	28·2	33·0	− 3·6	0	63	•	•	•	•	•	•	3	0·20	− 1·97	•	•	•	•	
p Fort Augustus..	44	20th	25	22nd	39·3	29·9	34·8	− 2·9	0	50	•	•	•	•	•	•	3	0·14	− 1·06	0·9	+ 0·1	12	+ 1	Fort Augustus.
p Fort William ..	43	20th	27	23rd	39·1	31·9	35·6	− 3·7	0	45	•	•	•	•	•	•	4	0·27	− 1·77	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	42	21st	28	22nd	39·0	31·3	35·3	− 3·0	0	47	6	17	34·8	−0·1	38·6	+1·0	—	—	—	1·0	—	13	—	Crathes S.
a Nairn	41	20th	23	22, 23	37·9	27·4	32·9	− 4·5	0	64	•	•	•	•	•	•	4	0·28	− 0·20	*1·6*	—	*21*	—	*Gordon Castle.*
a Aberdeen ..	43	20th	28	22, 23	39·4	31·0	35·4	− 2·4	0	46	•	•	•	•	•	•	3	0·26	− 0·17	1·4	—	18	—	Nairn.
a Balmoral ..	38	20th	18	22nd	35·9	23·3	29·9	− 4·1	0	85	6	15	•	•	40·5	+1·2	5	0·59	+ 0·08	1·2	− 0·6	16	− 9	Aberdeen.
p Crieff	45	24th	24	22nd	38·3	29·1	33·9	− 3·3	0	57	•	•	•	•	•	•	6	0·86	+ 0·18	•	•	•	•	Balmoral.
a Leith	42	20th	28	23rd	39·6	32·0	36·0	− 3·2	0	42	•	•	•	•	•	•	5	0·86	− 0·02	1·4	—	18	—	Balruddery.
p West Linton .. S	41	24th	21	22nd	36·4	28·4	32·6	− 3·6	0	66	5	15	•	•	•	•	6	0·81	+ 0·44	•	•	•	•	
p Marchmont .. S	39	20, 21, 24	27	22nd	37·6	30·6	34·2	− 2·3	0	55	4	20	33·9	−1·6	•	•	6	1·17	—	*0·7*	—	*9*	—	*West Linton.*
																	7	1·02	+ 0·51	0·7	− 0·9	9	−11	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	47	24th	26	22, 23	41·7	31·7	36·9	− 1·3	0	36	4	23	34·5	−1·2	39·0	−0·1	6	0·69	+ 0·18	1·2	—	15	—	Cockle Park.
a Shields	49	24th	30	22nd	42·4	33·1	37·9	− 0·7	1	32	•	•	•	•	•	•	7	0·85	+ 0·61	•	•	•	•	*Newcastle.*
p Durham	49	24th	25	22nd	41·6	32·1	37·0	− 0·2	0	35	2	20	•	•	•	•	6	0·84	+ 0·50	1·0	− 0·6	13	− 8	Durham.
a, North .. *p* Rounton	47	24th	26	22nd	40·9	32·6	36·9	− 0·1	0	36	5	23	36·7	•	•	•	6	0·78	+ 0·39	•	•	•	•	Rounton.
a West Witton ..	*46*	*23, 24*	*23*	*22nd*	*40·7*	*29·6*	*35·4*	—	*0*	*46*	4	20	36·1	•	40·2	•	*6*	*1·45*	—	•	•	•	•	*West Witton.*
p Scarborough ..	46	24th	33	22nd	41·9	35·5	38·8	+ 0·3	0	22	•	•	•	•	43·0†		7	0·65	+ 0·21	0·7	—	9	—	Scarborough.
p York	49	24th	29	22nd	44·1	34·7	39·6	+ 1·4	6	28	•	•	38·1	+0·9	42·2	+1·3	6	0·46	+ 0·09	0·3	− 0·9	4	−11	York.
b South .. *a* Spurn Head ..	47	24th	33	19th	42·4	36·3	39·5	+ 0·9	1	21	2	22	38·1	+2·0	43·0	+1·1	6	0·70	+ 0·43	*0·0*	—	*0*	—	*Hull.*
a Lincoln	51	23rd	29	22, 23	43·6	33·4	38·7	+ 1·4	4	33	•	•	36·0	−0·5	41·3	+0·8	6	0·32	− 0·04	•	•	•	•	Lincoln.
a Fulbeck	51	23rd	26	23rd	43·3	34·1	38·9	+ 1·3	4	30	5	23	38·1	+1·2	43·2	+0·9	6	0·34	− 0·04	0·2	—	2	—	Rauceby.
											•	•	•	•	•	•	—	—	—	0·2	—	2	—	Skegness.
3. ENGLAND, E.											2	26	40·4	+3·8	42·6	+1·8	—	—	—	*0·5*	*− 1·2*	*6*	*−14*	*Lowestoft.*
p Cromer	51	23rd	32	19th	45·3	34·9	40·3	+ 3·4	9	29	•	•	•	•	•	•	6	0·35	—	0·3	—	4	—	Cromer.
p Little Massingham ..	50	23rd	31	19th	44·7	36·1	40·6	+ 3·5	8	24	5	24	•	•	•	•	6	0·67	+ 0·22	0·1	− 1·6	1	−19	Lit. Massingham
a, North .. *a* Yarmouth	52	23rd	33	19, 20	45·7	37·3	41·7	+ 4·3	10	20	•	•	39·6	+3·6	44·0	+2·2	6	0·59	+ 0·23	0·3	—	4	—	Yarmouth.
a Norwich	52	23rd	30	19th	45·9	36·3	41·3	+ 4·1	11	24	4	24	38·1	•	•	•	6	0·45	—	*0·4*	—	*5*	—	*Norwich.*
p Geldeston	53	23rd	33	19th	46·6	36·7	41·9	+ 3·9	13	24	•	•	•	•	•	•	6	0·43	+ 0·09	0·3	− 1·6	4	−19	Geldeston.
p Cambridge	52	23rd	30	19th	46·0	35·3	40·9	+ 3·2	11	28	5	22	39·3	+2·6	43·4	+1·6	4	0·46	+ 0·15	0·1	− 1·7	1	−20	Cambridge.
a Felixstowe	*51*	*23rd*	*32*	*22nd*	*46·3*	*37·3*	*42·0*	+ *3·7*	*12*	*13*	•	•	•	•	•	•	*6*	*0·42*	—	*0·7*	—	*8*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	51	23rd	32	19, 23	45·6	36·9	41·4	+ 3·2	10	21	2	28	41·1	+3·1	44·8	+1·3	7	0·47	—	0·5	—	6	—	Clacton.
a Rothamsted	51	23, 24	28	19th	47·3	34·6	41·2	+ 3·8	15	31	•	•	•	•	•	•	4	1·07	+ 0·61	0·1	− 1·6	1	−19	Rothamsted.
a Shoeburyness	*51*	*23rd*	*32*	*22, 23*	*47·4*	*38·3*	*43·0*	+ *4·5*	*23*	*10*	5	21	40·5	+2·7	•	•	*3*	*0·45*	+ *0·17*	*0·4*	—	*5*	—	*Southend.*
p Tottenham	52	23rd	32	22nd	48·6	38·6	43·8	+ 5·0	27	10	4	25	•	•	44·9	+1·9	3	0·63	—	0·2	—	2	—	Tottenham.
4. MIDLAND COUNTIES.											2	23	37·2	+0·5	42·0	+1·2	—	—	—	*0·3*	—	*4*	—	*Huddersfield.*
a Harrogate	47	24th	26	22nd	41·0	32·7	37·0	+ 0·2	0	35	3	21	37·5	+0·3	40·1	+0·5	6	0·98	+ 0·48	0·5	—	6	—	Harrogate.
a Bawtry	49	24th	28	22nd	43·0	33·1	38·3	+ 0·6	3	34	4	20	37·5	•	41·2	•	4	0·48	+ 0·11	0·1	− 1·3	12	− 5	Worksop.
p Buxton	*48*	*23, 24*	*24*	*22, 23*	*42·0*	*31·1*	*36·8*	+ *1·4*	*0*	*36*	4	18	36·9	+0·7	42·8	+1·1	*5*	*1·32*	+ *0·28*	*0·0*	—	*0*	—	*Buxton.*
a East .. *a* Nottingham	52	23rd	29	23rd	44·4	34·4	39·6	+ 1·8	7	30	3	24	37·4	+2·0	40·4	+1·1	7	0·53	+ 0·13	0·0	—	0	—	Nottingham.
p Birmingham, Edgbsn.	50	23rd	30	22nd	43·1	34·9	39·2	+ 1·5	8	27	5	15	40·3	+1·8	44·7	+0·9	7	0·90	+ 0·47	0·0	—	0	—	Birmingham.
a Raunds	51	23rd	28	22, 23	45·6	34·7	40·4	+ 3·2	10	30	3	21	39·0	•	45·2	•	4	0·58	—	•	•	•	•	Raunds.
p Oxford	51	23rd	30	22nd	46·4	37·0	41·9	+ 3·0	12	22	2	23	•	•	•	•	4	1·20	+ 0·81	0·2	− 1·5	2	−18	Oxford.
											3	23	37·8	+1·5	42·4	+1·3	—	—	—	0·0	—	0	—	Sheffield.
a Cheadle	48	23rd	27	21, 25	42·7	34·1	38·6	+ 1·7	2	30	4	18	•	•	•	•	4	1·07	+ 0·53	•	•	•	•	Cheadle.
p Shrewsbury	52	23rd	26	22nd	46·7	34·3	40·8	+ 2·3	13	32	3	21	•	•	•	•	4	0·72	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	51	23rd	28	22nd	46·4	35·7	41·3	+ 2·9	12	27	3	25	•	•	•	•	4	0·78	+ 0·28	•	•	•	•	Hereford.
a Cirencester	48	22, 23, 24	27	22, 23	45·4	33·3	39·6	+ 2·1	10	35	2	27	39·5	•	43·3	•	4	1·22	+ 0·72	0·8	− 0·9	10	−11	Cirencester.
a Bath	53	23, 24	28	19th	49·6	36·0	43·1	+ 3·6	33	17	•	•	40·9	+1·7	46·0	+2·0	5	1·35	+ 0·83	0·6	—	7	—	Bath.
5. ENGLAND, S.E.											2	26	40·6	+2·6	45·7	+2·4	—	—	—	•	•	•	•	Canterbury
p Kew	52	23rd	30	19th	46·9	37·4	42·3	+ 3·3	21	13	4	18	40·9	+3·8	45·3	+2·3	4	0·70	+ 0·33	0·2	− 1·3	2	−16	Kew.
a Marlborough	50	23rd	28	22nd	47·0	35·1	41·3	+ 3·8	14	29	3	21	•	•	45·7	•	4	1·38	+ 0·83	0·2	− 1·3	2	−16	Marlborough.
a Margate	52	23, 24	35	22, 23	47·7	39·7	43·9	+ 4·8	23	6	•	•	43·4	+5·2	46·8	+5·3	4	0·67	+ 0·31	0·5	− 1·2	6	−14	Margate.
a Wisley, Surrey ..	52	23rd	30	22nd	48·4	37·7	43·3	+ 3·9	27	12	3	23	40·6	+3·3	44·0	+1·8	4	0·88	—	0·5	—	6	—	Wisley
a Swarraton	51	23rd	28	22nd	47·0	35·6	41·5	+ 3·9	14	27	2	23	42·4	+4·4	46·1	+2·7	3	1·22	+ 0·67	0·5	—	6	—	Worthing.
a Tunbridge Wells ..	51	23rd	29	22nd	46·6	36·3	41·7	+ 4·0	13	25	4	22	39·9	+3·3	•	•	6	1·18	+ 0·63	0·6	− 1·0	7	−12	Tunbridge Wells
a Dungeness	52	25th	30	23rd	48·0	40·0	44·2	+ 5·0	24	6	•	•	•	•	•	•	4	0·59	+ 0·19	0·9	—	11	—	Littlestone.
p Hastings..	50	23, 25	31	22nd	46·9	39·1	43·2	+ 3·6	21	8	2	28	41·5	•	45·0	•	5	0·79	+ 0·29	*0·7*	*− 1·4*	*8*	*−16*	*Hastings.*
p Southampton	52	23rd	31	22nd	48·1	39·1	43·8	+ 3·6	25	8	2	25	•	•	•	•	4	1·16	+ 0·61	0·4	− 1·4	5	−17	Southampton
a Ventnor	51	23, 25	34	22nd	49·1	41·1	45·3	+ 3·8	27	3	2	25	•	•	•	•	6	0·73	+ 0·18	0·6	− 1·4	7	−17	Ventnor.
											2	24	43·1	+3·9	46·0	+1·7	—	—	—	*0·8*	—	*9*	—	*Portsmouth.*
											•	•	43·0	•	46·3	•	—	—	—	0·4	− 1·5	5	−18	Eastbourne.
LONDON.											•	•	41·9	•	43·7	•	—	—	—	*1·2*	—	*14*	—	*Bournemouth.*
a Westminster	*53*	*23rd*	*31*	*19th*	*49·1*	*38·4*	*44·0*	+ *4·9*	*29*	*10*	2	27	•	•	44·2	•	—	—	—	*0·4*	*− 1·5*	*5*	*−18*	*Brighton.*
a Greenwich	*52*	*23rd*	*32*	*19, 24, 23*	*48·0*	*36·7*	*42·6*	+ *3·9*	*26*	*15*	1	28	•	•	•	•	*5*	*0·62*	+ *0·25*	*0·2*	*− 0·5*	*2*	*− 6*	*Westminster.*
a Hampstead	*50*	*23, 24*	*29*	*22nd*	*46·1*	*36·1*	*41·3*	—	*11*	*25*	4	24	•	•	•	•	*4*	*0·70*	+ *0·35*	*0·3*	*− 1·2*	*4*	*−14*	*Greenwich.*
a Camden Square ..	*52*	*23rd*	*30*	*19th*	*48·3*	*37·0*	*42·9*	—	*27*	*14*	3	22	•	•	•	•	*5*	*0·66*	—	*0·1*	—	*1*	—	*Hampstead.*
											3	25	•	•	•	•	*3*	*0·61*	—	*0·2*	—	*2*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	41	21st	30	22nd	38·3	33·0	35·8	− 3·2	0	43	•	•	•	•	•	•	4	1·07	+ 0·06	•	•	•	•	
p Glasgow .. S	41	20th	30	22nd	39·1	33·3	36·3	− 2·2	0	40	2	24	•	•	•	•	5	0·96	+ 0·26	0·9	0·0	11	0	Glasgow.
p Rothesay .. S	41	19, 20, 21	30	22, 25	39·6	33·6	36·7	− 2·8	0	37	•	•	•	•	42·1	+0·2	4	1·13	+ 0·18	•	•	•	•	
a Kilmarnock ..	42	23rd	28	22nd	39·9	32·0	36·1	− 3·4	0	41	•	•	•	•	•	•	3	1·19	—	*0·7*	—	*9*	—	*Kilmarnock.*
a Colmonell ..	47	23, 24	27	22nd	43·4	33·1	38·5	− 0·6	4	34	4	21	•	•	•	•	4	1·20	+ 0·23	•	•	•	•	
p Dumfries ..	49	24th	25	22nd	41·7	32·1	37·1	− 1·3	0	34	6	20	35·4	•	40·3	•	5	1·24	+ 0·49	*1·4*	—	*18*	—	*Dumfries.*
p Cally, Gatehouse S	46	24th	24	22nd	43·0	32·0	37·7	− 0·3	3	37	•	•	•	•	•	•	4	1·61	+ 0·61	•	•	•	•	
b I. OF MAN																								
p Douglas	49	23, 24	33	21, 22	45·0	37·4	41·4	+ 0·7	8	20	3	27	•	•	•	•	5	1·28	+ 0·51	2·0	+ 0·2	25	+ 3	Douglas.
											2	16	37·0	+0·8	41·6	+0·6	—	—	—	*0·3*	—	*4*	—	*Burnley.*
											•	•	•	•	•	•	—	—	—	•	•	•	•	Hoylake.
7. *a*, ENGLAND, N.W.											5	19	38·6	•	43·7	•	3	1·02	+ 0·41	1·2	—	15	—	Aspatria.
p Aspatria	48	24th	25	25th	42·6	32·4	37·7	− 0·2	2	35	6	17	37·1	−0·3	40·7	+0·5	5	1·20	+ 0·46	0·9	− 0·6	11	− 7	Newton Rigg.
p Newton Rigg	48	24th	23	22nd	41·3	31·7	36·7	− 0·1	0	37	3	19	•	•	•	•	5	1·85	+ 0·94	0·5	− 0·8	6	−10	Stonyhurst.
p Stonyhurst	47	24th	28	22nd	42·4	35·6	39·1	+ 1·2	1	23	4	13	38·9	•	44·9	•	5	1·52	+ 0·92	1·2	− 0·2	15	− 3	Blackpool.
p Blackpool	48	24th	26	22nd	43·3	33·9	38·8	+ 0·1	4	31	3	18	•	•	•	•	5	0·95	+ 0·45	*0·2*	*− 0·5*	*3*	*− 6*	*Whit. Park.*
p Manchester (Whit Pk.)	50	23rd	29	22nd	44·9	36·0	40·6	+ 1·4	8	24	•	•	•	•	•	•	5	0·62	+ 0·15	*1·0*	—	*12*	—	*Liverpool.*
a Liverpool (Bidston) ..	52	23rd	31	22, 23	45·4	35·9	40·8	+ 1·0	10	25	6	20	35·4	•	40·3	•	4	0·56	+ 0·19	*1·4*	*− 0·1*	*17*	*− 1*	*Southport.*
a Hawarden Bridge ..	55	22nd	29	23rd	47·7	36·6	42·4	+ 2·2	25	15	2	17	36·7	+0·8	40·3	+0·4	4	0·56	+ 0·19	*1·4*	*− 0·1*	*17*	*− 1*	*Southport.*
											1	27	39·5	+2·7	43·4	+1·3	—	—	—	*0·1*	—	*1*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	50	23, 24	32	22nd	44·0	38·3	41·3	− 0·1	6	15	•	•	•	•	•	•	5	1·00	+ 0·45	0·9	− 0·8	11	−10	Llandudno.
a Holyhead	50	24th	33	23rd	46·4	39·4	43·0	+ 1·4	18	7	•	•	•	•	•	•	5	1·00	+ 0·36	0·6	—	7	—	Aberdovey.
p Bettws-y-Coed ..	48	23, 24	33	25th	46·8	34·7	41·0	+ 0·5	14	30	3	30	40·4	+2·1	44·0	+0·9	5	1·85	—	0·1	—	1	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				0·9	—	11	—	Aberystwyth.
a Llangammarch Wells	50	23rd	25	22nd	45·9	34·4	40·4	+ 2·9	11	31	3	21	39·9	+1·3	45·0	+1·1	5	2·75	—	0·5	—	6	—	Llangammarch
a Pembroke	51	23rd	30	20th	48·1	41·6	45·0	+ 2·5	23	1	*	*	*	*	*	*	6	1·81	+ 1·09	1·1	- 0·8	13	-10	Pembroke.[Wells
p Cardiff	51	23rd	31	22nd	46·7	37·7	42·4	+ 2·7	21	12	?	?	41·0	+3·1	44·8	+2·1	5	2·01	+ 1·23	*1·4*	—	*17*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	52	24th	31	22nd	48·0	38·3	43·3	+ 3·6	25	10	2	27	*	*	*	*	5	1·34	+ 0·74	*0·9*	—	*11*	—	*Clifton.*
a Shaftesbury	50	23rd	30	22nd	46·1	34·7	40·6	+ 2·9	11	30	*	*	39·9	*	43·9	*	5	1·59	+ 1·01	*	—	*	—	Shaftesbury.
a Arlington	49	22, 23, 24	32	22nd	46·4	37·7	42·2	+ 3·0	19	12	*	*	*	*	*	*	5	2·64	+ 1·64	*	—	*	—	Arlington.
a Newquay	*53*	*24, 25*	*36*	*22nd*	*50·0*	*41·9*	*46·1*	*+ 2·6*	*29*	*0*	*	*	44·5	*	*	*	*7*	*0·82*	*+ 0·18*	0·9	- 1·0	11	-12	Newquay.
a Cullompton	53	23rd	30	19th	49·6	37·6	43·8	+ 3·9	31	12	2	24	41·9	*	*	*	5	1·72	+ 1·02	1·3	- 0·3	15	- 4	Cullompton.
a Portland	51	22, 23, 24	36	22nd	50·0	42·9	46·6	+ 4·9	32	0	*	*	*	*	*	*	5	0·95	—	*0·8*	—	*9*	—	*Weymouth.*
p Plymouth	53	23rd	35	22nd	50·3	41·8	46·2	+ 4·0	30	1	2	27	43·7	+3·1	*	*	6	1·13	+ 0·40	0·9	- 0·9	11	-10	Plymouth.
p Falmouth	52	24th	39	25th	49·6	42·9	46·4	+ 3·1	31	0	*	*	*	*	*	*	6	0·93	+ 0·02	1·8	- 0·2	21	- 2	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	47	24th	34	19, 20, 22	44·7	36·1	40·6	- 0·3	8	24	*	*	*	*	*	*	6	0·55	- 0·03	*	*	*	*	* *
a Blacksod Point ..	50	22, 24	36	21, 22	46·4	38·9	42·8	+ 0·3	19	9	*	*	*	*	*	*	4	1·78	+ 0·72	*	*	*	*	* *
p Markree Castle ..	50	23rd	30	19, 21, 25	46·6	34·7	40·9	+ 1·4	13	31	4	25	40·3	*	44·0	*	5	2·04	+ 1·23	1·0	- 0·5	12	- 6	Markree Castle.
a Birr Castle	51	22, 23	30	25th	46·6	36·4	41·7	+ 1·9	13	24	*	*	*	*	*	*	5	1·47	+ 0·87	*1·5*	*- 0·3*	*18*	*- 4*	*Birr Castle.*
b, East .. { *p* Armagh	49	22nd	28	21st	45·1	34·9	40·2	+ 0·5	9	28	4	23	39·1	-0·6	43·0	-0·1	6	1·09	+ 0·53	1·0	- 0·6	12	- 8	Armagh.
a Donaghadee	48	22, 24	33	19th	45·0	37·6	41·5	+ 1·0	8	19	*	*	*	*	*	*	3	0·87	+ 0·28	*	*	*	*	* *
											3	22	41·5	+1·8	44·0	+0·6	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											4	21	*	*	*	*	—	—	—	1·7	- 0·3	21	- 4	Phœnix Park.
a, East .. { *p* Dublin, City	52	23rd	33	22nd	48·0	39·1	43·7	+ 2·0	24	8	0	31	*	*	*	*	5	1·50	+ 1·00	*	*	*	*	Dublin City.
a Kilkenny	53	23rd	29	19th	46·9	36·3	41·8	+ 1·6	14	25	*	*	*	*	*	*	6	1·25	+ 0·51	*	*	*	*	* *
a Waterford	53	24th	31	19th	48·1	37·9	43·2	+ 2·0	26	11	*	*	*	*	*	*	6	1·23	+ 0·35	*	*	*	*	* *
b, West .. { *a* Birr Castle	51	22, 23	30	25th	46·6	36·4	41·7	+ 1·9	13	24	*	*	*	*	*	*	5	1·47	+ 0·87	1·5	- 0·3	18	- 4	Birr Castle.
a Foynes	52	22, 23	31	25th	47·0	38·7	43·0	+ 0·9	21	9	*	*	*	*	*	*	6	1·74	+ 0·94	*	*	*	*	* *
a Cahir	53	23rd	29	19th	47·1	36·7	42·1	+ 0·9	23	15	*	*	*	*	*	*	6	1·51	—	*	*	*	*	* *
a Killarney	56	23rd	33	25th	49·2	40·3	44·9	+ 2·5	27	5	*	*	*	*	*	*	6	2·06	+ 0·69	*	*	*	*	* *
a Valencia	53	22, 23	39	19th	49·3	42·4	46·0	+ 1·6	28	0	*	*	*	*	*	*	6	2·09	+ 0·85	1·6	- 0·2	19	- 3	Valencia.
a Roche's Point	52	22, 23	38	22, 25	48·4	41·6	45·1	+ 1·7	23	1	*	*	*	*	*	*	6	0·98	- 0·02	1·8	*	21	*	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's .	53	24th	41	20th	51·3	43·6	47·6	+ 2·1	39	0	*	*	*	*	*	*	7	1·14	+ 0·46	2·3	+ 0·2	26	+ 2	Scilly.
a Jersey, St. Aubins ..	52	22, 23, 24	35	22nd	51·0	42·0	46·7	+ 4·1	33	0	*	*	*	*	*	*	6	0·67	+ 0·01	1·1	- 1·3	12	-14	St. Heliers.
a Guernsey (Villa Carey)	52	23rd	39	22nd	49·7	42·7	46·3	+ 3·0	30	0	1	30	44·8	+2·7	47·1	+1·2	6	0·98	+ 0·28	1·3	- 0·6	15	- 7	Guernsey.*

Additional Sunshine Means:—*Bognor, 0·6 hrs. 7 °/₀; Ramsgate, 0·7 hrs. 8 °/₀; Rhyl, 1·2 hrs. 14 °/₀; Salcombe, 0·8 hrs. 9 °/₀; Tenby, 1·4 hrs. (−0·7) 17 °/₀ (− 8 °/₀); Torquay, 1·4 hrs. (−0·7) 16 °/₀ (−8 °/₀).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, January 25th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	44	43	43·7	+0·8	SCOTLAND, W. ..	Lamlash	45	42	43·0	-1·5
	Kirkwall	41	40	40·4	−0·2		Ballantrae	43	41	42·1	0·0
	Wick	43	42	42·8	−1·4	ENGLAND, N.W. ..	Port Erin	46	44	45·5	+0·2
	Cromarty	39	38	38·5	−0·9		Newquay	49	48	48·7	+3·1
SCOTLAND, E. ..	Pennan Bay	42	40	40·7	+0·9	ENGLAND, S.W. ..	Scilly	49	49	49·0	—
	Aberdeen, Cove Bay	43	42	42·4	+3·2		Plymouth‡	49	47	48·0	+1·3
ENGLAND, N.E. ..	Burnmouth, Berwick	39	38	38·7	−0·9		Salcombe	48	45	47·3	+1·3
	Scarborough	48	42	44·2	+4·0	IRELAND, N.W. ..	Sheephaven	46	44	44·7	0·0
ENGLAND, E. ..	Shipwash Lightship	47	43	45·7	+6·0		Teelin	46	43	44·1	+0·8
	Margate‡	44	41	42·9	+3·5	IRELAND, S.W. ..	Cleggan	49	43	45·7	+1·7
ENGLAND, S.E. ..	Eastbourne‡	46	45	45·1	+4·8		Seafield	54	50	52·0	+6·8
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FOURTH WEEK—January 19th to January 25th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	44	25	39·4	32·1	35·9	− 3·0	0	− 8	43	+11	4	− 2	0·36	−1·27	1·4	+0·5	19	+ 8
Eastern.																		
1. SCOTLAND, EAST ...	45	18	38·0	29·1	33·8	− 4·8	0	− 10	57	+21	5	0	0·73	+0·12	1·1	−0·6	15	− 7
2. ENGLAND, N.E.	51	25	42·4	33·7	38·2	− 1·2	1	− 19	30	0	6	+ 3	0·64	+0·30	0·6	−1·1	7	−13
3. ENGLAND, EAST ...	53	28	46·2	36·3	41·4	+ 2·5	12	+ 2	24	−10	5	+ 1	0·57	+0·19	0·2	−1·8	3	−22
4. MIDLAND COUNTIES ...	53	26	44·9	34·6	40·0	+ 0·9	8	− 4	30	− 3	5	+ 1	0·89	+0·39	0·3	−1·4	3	−17
5. ENGLAND, S.E.	52	28	47·6	38·1	43·1	+ 2·8	24	+ 11	11	−14	4	+ 1	0·93	+0·42	0·5	−1·3	6	−16
Western.																		
6. SCOTLAND, WEST ...	49	24	41·3	33·3	37·5	− 3·2	0	− 13	32	+ 9	4	− 2	1·21	+0·09	1·5	+0·1	18	+ 1
7. ENGLAND, N.W.	55	23	44·5	35·5	40·1	− 0·2	7	− 4	25	+ 1	5	+ 1	1·16	+0·41	0·8	−0·6	10	− 8
8. ENGLAND, S.W.	53	25	48·1	39·0	43·7	+ 1·8	25	+ 7	8	−10	5	0	1·69	+0·84	1·1	−0·7	12	− 8
9. IRELAND, NORTH ...	51	28	45·7	36·4	41·3	+ 0·2	10	− 5	24	+ 3	5	0	1·30	+0·49	1·0	−0·5	12	− 7
10. IRELAND, SOUTH ...	56	29	47·8	38·8	43·5	+ 0·6	24	+ 2	9	− 6	6	+ 1	1·54	+0·70	1·6	−0·2	19	− 2
11. ENGLISH CHANNEL ...	53	35	50·7	42·8	46·9	+ 2·2	34	+ 8	0	− 6	6	+ 1	0·93	+0·28	1·6	−0·7	18	− 8

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 8 Weeks, December 1st, 1912, to January 25th, 1913.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	71	+ 10	201	− 58	42	0	12·48	+1·87	0·5	−0·2	8	− 3
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	64	+ 6	294	− 22	36	+ 3	5·82	+0·85	0·7	−0·4	10	− 6
2. ENGLAND, N.E.	58	18	*	*	*	*	115	+ 49	187	− 72	34	+ 6	4·42	+0·78	0·6	−0·7	9	− 8
3. ENGLAND, EAST ...	59	20	*	*	*	*	149	+ 77	128	−169	38	+ 7	4·51	+1·19	0·9	−0·6	12	− 8
4. MIDLAND COUNTIES ...	59	13	*	*	*	*	157	+ 75	167	−132	37	+ 7	6·23	+2·16	0·8	−0·5	10	− 6
5. ENGLAND, S.E.	59	22	*	*	*	*	214	+104	75	−143	35	+ 5	6·42	+2·07	1·2	−0·3	16	− 3
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	122	+ 34	156	− 47	44	+ 6	10·89	+1·80	0·6	−0·4	8	− 6
7. ENGLAND, N.W.	60	8	*	*	*	*	156	+ 68	122	− 86	41	+ 8	7·50	+1·76	0·8	−0·3	11	− 4
8. ENGLAND, S.W.	57	20	*	*	*	*	221	+ 74	55	− 99	46	+11	11·70	+4·31	1·1	−0·4	14	− 6
9. IRELAND, NORTH ...	58	20	*	*	*	*	178	+ 70	112	− 68	47	+ 8	9·54	+2·99	1·0	−0·3	13	− 4
10. IRELAND, SOUTH ...	58	20	*	*	*	*	229	+ 56	85	− 50	52	+15	11·08	+3·31	1·2	−0·4	15	− 5
11. ENGLISH CHANNEL ...	56	35	*	*	*	*	322	+ 92	8	− 42	49	+10	8·12	+1·86	1·4	−0·5	17	− 7

THE YEAR.—Aggregates, &c., for the Period of 4 Weeks, December 29th, 1912, to January 25th, 1913.

0. SCOTLAND, NORTH ...	54	25	*	*	*	*	31	+ 4	101	− 36	17	− 4	3·27	− 2·04	0·7	−0·1	10	− 1
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	19	− 9	168	+ 8	16	0	2·36	+ 0·03	0·7	−0·6	10	− 9
2. ENGLAND, N.E.	53	18	*	*	*	*	27	− 4	114	− 20	17	+ 3	2·54	+ 0·92	0·6	−0·7	8	− 9
3 ENGLAND, EAST ...	55	20	*	*	*	*	43	+ 10	83	− 71	18	+ 3	2·06	+ 0·48	1·2	−0·4	16	− 5
4. MIDLAND COUNTIES ...	55	13	*	*	*	*	48	+ 8	104	− 48	18	+ 3	3·06	+ 1·11	0·8	−0·6	10	− 7
5. ENGLAND, S.E.	53	22	*	*	*	*	75	+ 28	52	− 65	16	+ 2	3·14	+ 1·10	1·6	0·0	19	0
Western.																		
6. SCOTLAND, WEST ...	52	17	*	*	*	*	39	− 1	96	− 11	19	0	4·93	+ 0·68	0·8	−0·3	11	− 4
7. ENGLAND, N.W.	55	10	*	*	*	*	49	+ 10	79	− 30	18	+ 2	3·31	+ 0·58	1·0	−0·2	14	− 2
8. ENGLAND, S.W.	54	20	*	*	*	*	81	+ 14	42	− 42	23	+ 6	5·63	+ 2·31	1·4	−0·2	17	− 3
9. IRELAND, NORTH ...	55	21	*	*	*	*	60	+ 7	76	− 17	22	+ 3	4·39	+ 1·27	1·2	−0·1	16	− 2
10. IRELAND, SOUTH ...	56	22	*	*	*	*	86	+ 4	63	− 6	24	+ 6	6·17	+ 2·52	1·3	−0·3	16	− 4
11. ENGLISH CHANNEL ...	53	35	*	*	*	*	131	+ 30	8	− 23	24	+ 5	4·14	+ 1·38	1·7	−0·3	21	− 3

M.O., January 29, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 17

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 5. FIFTH WEEK, SUNDAY, JANUARY 26TH, TO SATURDAY, FEBRUARY 1ST, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was fair to bright in most parts of the Kingdom as the period commenced, but the subsequent conditions were changeable, with rather frequent rain. A good deal of snow was experienced after the middle of the week in the northern and central districts. Thunder and lightning occurred in various parts of the country some time during the week, especially in the north-west and north towards its close.

Temperature was slightly above the average in England East and South-East, and also in the English Channel. Elsewhere it was below, the deficit being greatest in Scotland East and England North-East. The highest readings were recorded in the latter half of the week, mostly on January 30th, and ranged from 55° in Ireland South and 53° in the Midland Counties and England South-West to a trifle below 50° in Scotland and in England North-East. The lowest readings, which occurred in most districts on January 26th or 27th, ranged from 13° in Scotland East (at Balmoral on January 26th) and 19° in England South-West to 28° in England South-East and to 37° in the English Channel. The temperature of the soil was generally above the average at a depth of both 1 foot and 4 feet, the difference being considerable in England South-East. In Scotland East the temperature at 1 foot was slightly below the average.

Mean Temperature of the Sea. On nearly all parts of the coast the temperature of the water was above the average, the divergence being very striking on the South-East coast of England, and also at Seafield and Scarborough. At most stations the mean was again higher than that of the corresponding week of last year. The mean for the week ranged from nearly 53° at Seafield and about 49½° at Scilly to 38·8° and 38·3° respectively at Cromarty and Berwick.

Rainfall was largely in excess of the average; in England South-East the total amounted to nearly twice, in England East to considerably more than twice and in the English Channel to nearly thrice normal. Considerable quantities were experienced at some of the western and northern stations on January 28th, and on the 30th the measurements were as large as 1·60 in. at Fort William, 1·35 at Poltalloch, and 1·26 in. at Crathes.

Bright Sunshine was generally below the average, but in England North-East and East and South-East the deficiency was slight. The mean daily duration ranged from a little over 2 hours (24% of the possible amount) in England East, and nearly 2 hours in England North-East to 0·6 hour in Ireland North and only 0·3 hour (3% of the possible) in Scotland North.

Barometer and Wind. At the beginning of the week the centre of an anticyclone lay over these Islands, and the winds were light or moderate. This, however, soon moved away to central Europe, and during the remainder of the week the pressure distribution was of a Southerly to South-Westerly type. No deep depressions passed directly over these Islands, but some of the larger systems had a considerable lateral extension, and caused fresh to very strong winds at times, while on Thursday a gale was experienced over the greater part of the Kingdom. On Saturday a secondary depression which developed over the South-West of this country moved eastward up the Channel and exercised great influence on the wind direction and weather in the South and South-East of England.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 19.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Moderate	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate
	Rainfall ...	Heavy	Heavy	Heavy	Very heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Heavy	Heavy	Very heavy
	Sunshine ...	Scanty	Scanty	Moderate	Moderate	Scanty	Scanty	Very scanty	Moderate	Scanty	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 9 weeks from Dec. 1st, 1912.	Warmth ...	3 * 3	3 * 3	4 * 2	4 * 1	5 * 1	6 * 0	5 * 3	5 * 1	5 * 1	6 * 1	5 * 2	6 * 0
	Rainfall ...	5 * 3	4 * 1	4 * 1	5 * 1	5 * 1	5 * 0	4 * 1	4 * 1	7 * 1	5 * 0	5 * 0	5 * 1
	Sunshine ...	1 * 4	0 * 5	1 * 6	1 * 5	1 * 6	2 * 4	0 * 6	1 * 2	0 * 6	0 * 5	0 * 5	0 * 7

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(28435—24.) Wt. 173—814. 450. 2/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands .. *p* Baltasound .. S	*44*	*30th*	*32*	*26, 1*	*40·1*	*35·0*	*37·7*	—	*0*	*30*	*	*	36·4	*	*	*	*7*	*1·31*	—	*0·1*	—	*1*	—	*Baltasound.*
a Lerwick	44	29, 30	32	26, 1	41·4	35·0	38·3	- 0·4	0	26	*	*	*	*	*	*	7	1·82	—	0·6	- 0·8	8	-10	Deerness.
a Stornoway	46	29th	29	26th	42·4	36·3	39·5	+ 0·4	1	21	*	*	*	*	*	*	7	1·68	+ 0·59	0·1	- 1·4	1	-18	Stornoway.
a Castlebay, Barra Isd. .	*47*	*29, 30*	*32*	*31, 1*	*44·9*	*37·7*	*41·4*	+ *0·3*	*8*	*18*	*	*	*	*	*	*	*6*	*1·21*	—	*0·0*	—	*0*	—	*Castlebay.*
b, Mainland. *a* Wick	43	27, 29, 30	29	26th	40·0	33·1	36·7	- 1·1	0	37	*	*	*	*	*	*	4	0·51	- 0·06	*	*	*	*	
p Strathpeffer ..	45	29, 30	26	26th	41·0	32·9	37 1	0·0	0	34	*	*	*	*	*	*	5	0·67	- 0·02	0·2	- 1·4	3	-18	Strathpeffer.
p Glencarron ..	47	29th	22	26th	40·2	31·7	36·1	- 0·6	0	41	*	*	*	*	*	*	5	2·08	+ 0·04	*	*	*	*	
p Fort Augustus..	47	29th	23	26th	41·4	33·9	37·8	0·0	0	29	*	*	*	*	*	*	6	1·88	+ 0·73	0·1	- 0·9	1	-11	Fort Augustus.
p Fort William ..	47	29th	23	1st	42·3	33·7	38·2	- 1·1	1	31	*	*	*	*	*	*	6	3·73	+ 1·77	*	*	*	*	
1. SCOTLAND, E.																								
p Gordon Castle.. S	45	30th	30	26th	40·9	34·7	37·9	- 0·4	0	29	5	20	34·3	-0·3	37·6	+0·2	—	—	—	1·4	—	17	—	Crathes S
a Nairn	46	30th	26	26th	40·0	31·6	36·0	- 1·4	0	42	*	*	*	*	*	*	5	0·09	- 0·41	*0·6*	—	*8*	—	*Gordon Castle.*
a Aberdeen ..	42	28, 29, 30	28	26, 27	40·6	32·6	36·8	- 1·1	0	36	*	*	*	*	39·7	+0·8	4	0·34	- 0·11	0·6	—	8	—	Nairn.
a Balmoral ..	45	28th	13	26th	40·0	29·4	34·9	+ 0·8	0	50	3	11	*	*	*	*	3	1·22	+ 0·70	1·3	- 0·8	16	-10	Aberdeen.
p Crieff	42	30th	21	26th	38·1	29·6	34·0	- 3·6	0	56	*	*	*	*	*	*	6	0·91	+ 0·23	*	*	*	*	Balmoral.
a Leith	48	30th	25	26, 27	41·3	32·1	36·9	- 2·3	0	36	*	*	*	*	*	*	5	0·67	+ 0·29	*	*	*	*	Balruddery.
p West Linton .. S	44	30th	17	26th	38·9	29·9	34·6	- 1·9	0	52	5	16	*	*	*	*	3	0·66	—	*1·7*	—	*21*	—	*West Linton.*
p Marchmont ..	43	30th	27	26th	38·9	31·1	35·2	- 1·5	0	48	4	21	34·0	-0·8	*	*	4	0·39	- 0·13	1·4	- 0·5	17	- 6	Marchmont.
2. ENGLAND, N.E.																								
a, North .. *a* Alnwick Castle ..	46	30th	25	26th	41·0	31·3	36·3	- 1·9	0	40	6	22	34·6	+0 4	38·5	-0·1	4	1·17	+ 0·68	2·5	—	3	—	Cockle Park.
a Shields	45	30th	28	27th	41·6	31·3	36·7	- 1 9	0	37	*	*	*	*	*	*	5	0·38	+ 0·04	*	*	*	*	*Newcastle.*
p Durham	45	31st	26	26th	39·9	31·1	35·7	- 1·8	0	44	4	21	*	*	*	*	4	0·33	- 0·01	1·9	0·0	23	0	Durham.
p Rounton	45	31st	26	26th	40·4	32·4	36·6	- 0·5	0	38	4	19	36·4	*	*	*	4	0·41	+ 0·02	*	*	*	*	Rounton
a West Witton ..	*46*	*30th*	*25*	*26, 27*	*38·9*	*29·9*	*34·6*	—	*0*	*52*	5	22	35·7	*	39·4	*	*4*	*1·42*	—	*	*	*	*	*West Witton.*
p Scarborough ..	45	26th	32	27th	41·8	35·1	38·6	0·0	0	24	*	*	*	*	43·0†	*	4	0·45	+ 0·01	2·1	—	24	—	Scarborough.
p York	47	31st	29	26th	41·1	34·0	37·7	- 0·6	0	30	*	*	38·2	+1·4	41·8	+1·2	4	0·63	+ 0·25	0·8	- 0·7	9	- 8	York.
b South .. *a* Spurn Head ..	44	30th	33	27th	41·1	35·3	38·3	- 0·5	0	26	4	19	37·3	+1·4	42·6	+1·1	3	0·86	+ 0·58	*0·3*	—	*4*	—	*Hull.*
a Lincoln	48	30th	28	26th	41·7	32·3	37·2	- 0·3	0	34	*	*	37·4	+1·7	42·1	+2·4	3	0·67	+ 0·31	*	*	*	*	Lincoln.
a Fulbeck	48	30th	25	27th	41·1	32·0	36·7	- 1·3	0	37	5	17	37·8	+0·9	42·8	+1 0	3	0·52	+ 0·14	1·9	—	22	—	Rauceby.
											*	*	*	*	*	*	—	—	—	2·3	—	26	—	Skegness.
3. ENGLAND, E.											5	25	39·2	+2·1	42·6	+2·0	—	—	—	*2·4*	—	*28*	—	*Lowestoft.*
p Cromer	48	30th	30	27th	43·0	32·9	38·2	+ 1·2	3	34	*	*	*	*	*	*	5	0·80	—	2·5	—	29	—	Cromer.
p Little Massingham ..	48	26, 31	30	26, 27	43·3	33·1	38·4	+ 0·9	4	33	5	18	*	*	*	*	5	1·25	—	2·4	+ 1·5	28	+ 6	Lit. Massingham
a, North .. *a* Yarmouth	49	30th	33	26th	43·6	35·7	39·8	+ 2·2	4	24	*	*	38·6	+2·5	44·0	+2·7	4	1·03	+ 0·69	2·3	—	26	—	Yarmouth.
a Norwich	49	30th	27	27th	42·4	33·0	37·9	+ 0·4	1	33	5	20	37·3	*	*	*	4	1·08	—	*2·5*	—	*29*	—	*Norwich.*
p Geldeston	48	31st	29	27th	43·9	35·0	39·6	+ 1·3	5	27	*	*	*	*	*	*	4	1·06	+ 0·72	2·4	+ 0·3	28	+ 4	Geldeston.
b, South .. *p* Cambridge	49	31st	28	27th	44·3	33·7	39·2	+ 1·1	6	32	5	23	39·2	+2·9	43·1	+1·8	4	0·60	+ 0·28	2·4	+ 0·4	28	+ 5	Cambridge.
a Felixstowe ..	*44*	*30th*	*31*	*26th*	*42·9*	*36·4*	*39·8*	+ *1·3*	*3*	*21*	*	*	*	*	*	*	*4*	*1·00*	—	*2·4*	—	*28*	—	*Felixstowe.*
a Clacton-on-Sea ..	48	30th	33	26th	43·4	37·0	40·3	+ 1·8	4	19	2	27	41·6	+3·3	44·7	+1·7	4	0·80	—	2·5	—	28	—	Clacton.
a Rothamsted	51	30th	28	27th	43·6	33·1	38·6	+ 1·1	4	34	*	*	*	*	*	*	4	0·74	+ 0·28	1·7	- 0·2	19	- 2	Rothamsted.
a Shoeburyness ..	*50*	*30th*	*31*	*26th*	*43·7*	*36·7*	*40·3*	+ *1·5*	*5*	*20*	4	22	41·4	+3·6	*	*	*4*	*0·75*	+ *0·47*	*2·2*	—	*25*	—	*Southend.*
p Tottenham	50	31st	30	27th	45·1	36·0	40·7	+ 1·7	9	24	4	23	*	*	44·5	+2·1	3	0·73	—	1·4	—	16	—	Tottenham.
4. MIDLAND COUNTIES.											4	21	36·9	+0·9	41·3	+1·0	—	—	—	*0·9*	—	*11*	—	*Huddersfield.*
a Harrogate	47	30th	28	26, 27	39·0	31·3	35·3	- 1·6	0	47	4	21	37·2	+0·4	40·0	+0·8	4	0·99	+ 0·48	1·5	—	17	—	Harrogate.
a Bawtry	48	30th	27	26, 27	41·3	31·9	36·8	- 1·0	0	36	5	20	37·3	*	40·9	*	3	0·41	+ 0·03	1·8	+ 0·2	21	+ 3	Worksop.
p Buxton	*46*	*31st*	*29*	*26th*	*39·0*	*29·9*	*34·6*	- *0·9*	*0*	*52*	5	18	36·7	+1·0	42·5	+1·5	*5*	*1·00*	- *0·02*	*1·2*	—	*14*	—	*Buxton.*
a East .. *a* Nottingham	49	30th	27	27th	42·6	31·9	37·5	- 0·4	2	38	5	21	36·2	+1·2	40·2	+1·6	4	0·61	+ 0·27	1·5	—	17	—	Nottingham.
p Birmingham, Edgbsn.	48	30, 31	30	27th	42·1	33·7	38·1	+ 0·2	0	31	5	15	39·7	+1·6	44·1	+0·7	3	0·65	+ 0·22	1·2	—	14	—	Birmingham.
a Raunds	50	30th	28	26th	43·1	32·3	37·9	+ 0·5	3	36	4	19	38·9	*	44·4	*	4	0·64	—	*	*	*	*	Raunds.
p Oxford	52	31st	31	26th	44·7	36·3	40·7	+ 1·8	8	23	4	25	*	*	*	*	4	0·71	+ 0·31	1·8	- 0·1	20	- 1	Oxford.
											5	22	37 3	+1·4	41·9	+1·4	—	—	—	0·9	—	11	—	Sheffield.
b, West .. *a* Cheadle	46	30th	28	26th	40·9	31·1	36·2	- 0·9	0	41	5	22	*	*	*	*	3	0·78	+ 0·26	*	*	*	*	Cheadle.
p Shrewsbury	51	30, 31	25	26th	44·7	32·6	38·9	+ 0·1	8	37	5	22	*	*	*	*	3	0·38	—	*	*	*	*	Shrewsbury.
a Hereford	50	30th	25	26, 27	42·4	32·1	37·5	- 1·2	1	37	4	19	*	*	*	*	3	0·37	- 0·13	*	*	*	*	Hereford.
a Cirencester	49	30th	27	27th	41·9	32·4	37·3	- 0·4	0	33	3	26	40·2	*	43·0	*	6	1·10	+ 0·60	1·6	- 0·3	18	- 4	Cirencester.
a Bath	53	30th	30	26, 27	46·9	35·9	41·6	+ 1·8	14	26	*	*	41·9	+3·1	45·8	+2·5	5	1·08	+ 0·57	1·4	—	15	—	Bath.
5. ENGLAND, S.E.											4	19	41·0	+3·4	45·4	+2·6	—	—	—	*	*	*	*	Canterbury
p Kew	50	31st	31	26th	44·7	36·4	40·7	+ 1·5	8	23	3	16	41·1	+4·4	44·9	+2·5	4	0·81	+ 0·44	1·4	- 0·2	16	- 3	Kew.
a Marlborough	50	30th	28	26th	43·6	34·0	39·0	+ 1·3	4	31	5	19	*	*	45·8	*	5	1·19	+ 0·64	1·0	- 0·7	11	- 8	Marlborough.
a Margate	51	30th	34	27th	44·7	38·0	41·5	+ 2·3	8	17	1	30	43·4	+5·3	46·0	+4·9	3	0·62	+ 0·27	1·5	- 0·4	17	- 5	Margate.
a Wisley, Surrey ..	51	30th	28	26th	44·3	34·9	39·8	+ 0·2	6	28	4	18	40·7	+3·8	43·9	+2·4	4	0·68	—	1·5	—	17	—	Wisley
a Swarraton	*50*	30th	28	26th	44·0	34·1	39·3	+ 1·3	6	31	1	26	43·4	+5·6	46·0	+3·1	6	1·07	+ 0·52	2·0	—	20	—	Worthing.
a Tunbridge Wells ..	49	30th	29	26, 27	44·0	34·1	39·3	+ 1·3	6	31	4	19	40·3	+3·9	*	*	5	1·35	+ 0·81	1·7	- 0·1	19	- 2	Tunbridge Wells
a Dungeness	48	29, 30	30	27th	45·9	36·6	41·4	+ 1·9	11	23	*	*	*	*	*	*	4	1·28	+ 0·89	1·6	—	18	—	Littlestone.
p Hastings..	50	31st	33	26th	46·0	39·3	42·8	+ 3·0	18	8	1	30	42·6	*	44·9	*	5	1·37	+ 0·87	*2·0*	- *0·3*	*22*	- *3*	*Hastings.*
p Southampton	51	31st	31	26th	46·4	37·9	42·3	+ 1·8	19	11	3	24	*	*	*	*	6	1·27	+ 0·72	1·7	- 0·4	19	- 4	Southampton
a Ventnor	51	30th	33	26th	46·7	39·4	43·2	+ 1·7	19	7	*	*	*	*	*	*	5	0·88	+ 0·34	1·7	- 0·6	19	- 6	Ventnor.
											0	33	43·6	+5·0	46·2	+2·7	—	—	—	*2·1*	—	*24*	—	*Portsmouth.*
											*	*	44·2	*	46·3	*	—	—	—	1·8	- 0·3	20	- 4	Eastbourne.
											*	*	42·7	*	44·3	*	—	—	—	*1·9*	—	*21*	—	*Bournemouth.*
LONDON.											1	28	*	*	44·1	*	—	—	—	*1·9*	- *0·2*	*21*	- *3*	*Brighton.*
a Westminster	*52*	*30th*	*33*	*26th*	*45·7*	*37·1*	*41·6*	+ *2·2*	*10*	*21*	3	28	*	*	*	*	*4*	*0·63*	+ *0·26*	*1·4*	+ *0·5*	*16*	+ *6*	*Westminster.*
a Greenwich	*50*	*30th*	*28*	*26, 27*	*44·4*	*34·7*	*39·7*	+ *0·7*	*7*	*28*	4	20	*	*	*	*	*4*	*0·78*	+ *0·43*	*2·4*	+ *0·7*	*27*	+ *8*	*Greenwich.*
a Hampstead	*49*	*30th*	*30*	*27th*	*42·3*	*34·3*	*38·5*	—	*1*	*29*	5	22	*	*	*	*	*4*	*0·77*	—	*1·3*	—	*15*	—	*Hampstead.*
a Camden Square ..	*50*	*30th*	*27*	*27th*	*44·1*	*34·0*	*39·3*	—	*6*	*31*	3	24	*	*	*	*	*4*	*0·79*	—	*1·3*	—	*15*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	46	29th	26	26th	40·7	33·6	37·3	- 1·6	0	33	*	*	*	*	*	*	5	2·46	+ 1·48	*	*	*	*	
p Glasgow	47	30th	26	26th	41·1	34·1	37·7	- 0·9	0	30	1	20	*	*	*	*	5	1·41	+ 0·71	0·0	- 1·1	0	-13	Glasgow.
p Rothesay	48	30th	28	26th	42·0	35·4	38·8	- 0·8	0	22	*	*	*	*	41·0	-0·8	6	2·14	+ 1·21	*	*	*	*	
a Kilmarnock	47	30th	24	26th	41·1	32·6	37·0	- 2·3	0	35	*	*	*	*	*	*	5	1·16	—	*0·6*	—	*7*	—	*Kilmarnock.*
a Colmonell	49	30th	24	26th	42·3	33·7	38·2	- 0·6	1	31	1	20	*	*	*	*	4	1·07	+ 0·12	*	*	*	*	
p Dumfries	47	30th	25	26th	41·7	32·7	37·4	- 1·2	0	32	5	18	35·7	*	39·7	*	4	0·68	- 0·07	*0·8*	—	*10*	—	*Dumfries.*
p Cally, Gatehouse ..	45	29th	24	26th	41·6	33·6	37·8	- 0·5	0	29	*	*	*	*	*	*	3	1·77	+ 0·77	*	*	*	*	
b I. OF MAN																								
p Douglas	48	30th	34	26, 31	44·4	38·1	41·4	+ 0·9	7	16	1	29	*	*	*	*	2	0·54	- 0·25	1·3	- 0·7	15	- 8	Douglas.
											4	16	36·4	+0·8	41·3	+1·0	—	—	—	*0·8*	—	*9*	—	*Burnley.*
											4	27	*	*	*	*	—	—	—	1·0	—	12	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	47	30th	26	26th	43·0	33·3	38·3	+ 0·4	3	32	5	15	37·6	*	42·6	*	4	0·46	- 0·14	1·4	—	17	—	Aspatria.
p Newton Rigg	45	31st	23	26, 27	39·7	30·3	35·2	- 1·6	0	48	7	17	36·7	0·0	40·0	+0·2	5	0·45	- 0·29	1·2	- 0·5	14	- 6	Newton Rigg.
p Stonyhurst	44	30th	27	26th	40·0	33·4	36·8	- 1·3	0	36	5	18	*	*	*	*	4	1·48	+ 0·61	0·6	- 1·0	7	-11	Stonyhurst.
p Blackpool	47	31st	25	26th	42·3	34·6	38·6	- 0·1	1	27	6	16	38·7	*	43·7	*	4	0·91	+ 0·34	1·1	- 0·6	13	- 7	Blackpool.
p Manchester (Whit Pk.)	48	30, 31	27	26th	43·4	34·3	39·0	- 0·4	4	29	4	19	*	*	*	*	4	0·78	+ 0·31	*0·8*	*0·0*	*10*	*0*	*Whit. Park.*
a Liverpool (Bidston) ..	51	30th	30	27th	42·0	32·9	37·6	- 2·2	0	31	*	*	*	*	*	*	5	0·58	+ 0·12	*1·6*	—	*19*	—	*Liverpool.*
a Hawarden Bridge ..	51	30th	24	26th	43·1	32·3	37·9	- 2·4	3	36	3	16	36·5	+1·2	40·2	+0·9	3	0·29	- 0·06	*1·3*	- *0·4*	*15*	- *5*	*Southport.*
											2	25	37·7	+1·6	42·8	+1·2	—	—	—	*0·3*	—	*4*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	51	30th	30	26th	43·9	36·4	40·3	- 1·2	5	23	*	*	*	*	*	*	6	0·73	+ 0·19	1·7	- 0·3	20	- 3	Llandudno.
a Holyhead	49	30th	33	26, 27	45·3	37·0	41·3	- 0·3	9	21	*	*	*	*	*	*	5	0·88	+ 0·25	1·3	—	15	—	Aberdovey.
p Bettws-y-Coed ..	48	28th	29	27th	44·9	37·4	41·3	+ 0·7	8	19	6	26	39·4	+1·6	43·9	+1·4	4	1·88	—	0·9	—	10	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				1·0	—	12	—	Aberystwyth.
a Llangammarch Wells	50	30th	19	26th	42·3	31·0	36·9	- 1·1	1	40	4	17	39·1	+1·0	44·4	+1·0	5	1·09	—	0·5	—	6	—	Llangammarch
a Pembroke	50	30th	34	26, 27	46·7	38·9	43·0	+ 0·6	20	9	*	*	*	*	*	*	5	0·85	+ 0·16	0·7	- 1·4	8	-16	Pembroke.[Wells
p Cardiff	50	30, 31	29	26th	44·6	35·4	40·2	+ 0·5	7	26	?1	30	41·0	+2·9	44·3	+2·2	5	1·67	+ 0·91	*1·3*	—	*15*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	52	30th	30	26, 27	45·0	35·9	40·6	+ 0·7	8	25	2	27	*	*	*	*	6	1·19	+ 0·59	*0·9*	—	*10*	—	*Clifton.*
a Shaftesbury	49	30th	30	26th	43·0	33·7	38·5	+ 0·5	3	31	*	*	40·8	*	43·7	*	5	0·84	+ 0·26	*	*	*	*	Shaftesbury.
a Arlington	49	30th	29	26th	43·4	34·9	39·3	- 0·1	4	27	*	*	*	*	*	*	5	1·32	+ 0·34	*	*	*	*	Arlington.
a Newquay	*51*	*28, 30*	*31*	*26th*	*47·4*	*37·4*	*42 6*	- *0·8*	*24*	*13*	*	*	44·7	*	*	*	*6*	*1·21*	+ *0·60*	1·3	- 1·8	14	- 9	Newquay.
a Cullompton	52	30th	29	26th	46·0	35·4	40·9	+ 0·8	11	27	4	22	43·2	*	*	*	7	1·24	+ 0·55	1·1	- 0·8	12	- 9	Cullompton.
a Portland	49	28, 30	36	27th	47·1	39·7	43·6	+ 1·9	21	6	*	*	*	*	*	*	6	1·04	—	*1·3*	—	*14*	—	*Weymouth.*
p Plymouth	53	28th	34	26th	47·9	39·0	43·6	+ 1·5	24	8	3	25	44·1	+3·9	*	*	6	2·12	+ 1·41	1·0	- 1·1	11	-12	Plymouth.
p Falmouth	51	28, 30	36	31st	48·1	40·9	44·6	+ 1·4	23	3	*	*	*	*	*	*	5	2·05	+ 1·15	0·6	- 1·6	7	-18	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	48	30th	31	26, 27	44·0	35·4	39·9	- 1·0	6	26	*	*	*	*	*	*	6	0·59	+ 0·03	*	*	*	*	* *
a Blacksod Point	50	30th	35	31, 1	46·3	39·6	43·1	+ 0·5	18	7	*	*	*	*	*	*	6	1·35	+ 0·33	*	*	*	*	* *
p Markree Castle ..	51	30th	24	26th	44·1	34·0	39·3	- 0·4	6	31	3	20	40·9	*	43·9	*	6	1·16	+ 0·36	0·1	- 1·8	1	-19	Markree Castle.
a Birr Castle	52	30th	27	26, 27	45·7	33·9	40·0	- 0·1	10	32	*	*	*	*	*	*	6	1·34	+ 0·77	*1·4*	- *0·6*	*16*	- *6*	*Birr Castle.*
b, East .. *p* Armagh	50	30th	25	26th	43·2	35·0	39·6	- 0·3	5	27	3	20	39·3	- 0·2	42·8	- 0·1	6	0·65	+ 0·10	1·0	- 0·8	12	- 9	Armagh.
a Donaghadee ..	48	29th	32	1st	43·6	37·1	40·5	0·0	4	19	*	*	*	*	*	*	3	1·01	+ 0·43	*	*	*	*	* *
10. IRELAND, S.											5	22	41·6	+1·7	44·6	+1·5	—	—	—	*	*	*	*	Trinity Coll.
											5	24	*	*	*	*	—	—	—	2·0	- 0·2	23	- 3	Phœnix Park.
a, East .. *p* Dublin, City	51	30th	33	26, 1	46·4	37·9	42·3	+ 0·4	19	11	1	30	*	*	*	*	5	0·75	+ 0·25	*	*	*	*	Dublin City.
a Kilkenny	52	30th	24	26th	46·0	31·7	39·1	- 1·5	11	41	*	*	*	*	*	*	7	1·23	+ 0·53	*	*	*	*	* *
a Waterford	51	29th	25	26th	47·3	32·7	40·3	- 1·0	15	38	*	*	*	*	*	*	5	1·71	+ 0·83	*	*	*	*	* *
b, West .. *a* Birr Castle	52	30th	27	26, 27	45·7	33·9	40·0	- 0·1	10	32	*	*	*	*	*	*	6	1·34	+ 0·77	1·4	- 0 6	16	- 6	Birr Castle.
a Foynes	53	30th	29	26th	48·4	36·6	42·7	+ 0·5	28	15	*	*	*	*	*	*	6	1·38	+ 0·60	*	*	*	*	* *
a Cahir	52	30th	28	26, 27	47·1	33·4	40·5	- 0·8	14	35	*	*	*	*	*	*	5	1·60	—	*	*	*	*	* *
a Killarney	55	30th	28	26th	50·5	37·6	44·3	+ 1·7	35	12	*	*	*	*	*	*	6	1·27	- 0·07	*	*	*	*	* *
a Valencia	53	30th	30	26th	49·4	39·4	44·6	+ 0·2	29	7	*	*	*	*	*	*	7	2·01	+ 0·76	1·1	- 1·0	13	-11	Valencia.
a Roche's Point	52	30th	31	26th	48·1	38·1	43·3	- 0·1	25	11	*	*	*	*	*	*	7	0·92	- 0·05	1·9	*	22	*	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	52	30th	37	31st	49·9	41·4	45·8	+ 0·4	29	2	*	*	*	*	*	*	5	1·28	+ 0·61	1·4	- 1·0	16	-11	Scilly.
a Jersey, St. Aubins ..	52	26th	38	1st	48·4	41·7	45·2	+ 2·5	24	1	*	*	*	*	*	*	6	1·95	+ 1·30	0·7	- 2·0	8	-22	St. Heliers.
a Guernsey (Villa Carey)	51	30th	38	1st	47·6	41·6	44·7	+ 1·2	21	1	0	34	45·6	+4·1	47·1	+1·7	6	2·17	+ 1·49	0·9	- 1·4	10	-15	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·0 hrs. 22 °/₀; Ramsgate, 1·8 hrs. 20 °/₀; Rhyl, 1·5 hrs. 17 °/₀; Salcombe, 1·0 hrs. 11 °/₀; Tenby, 0·6 hrs. (± 1·7) 7 °/₀ (- 19 °/₀); Torquay, 1·4 hrs. (- 0·9) 16 °/₀ (- 10 °/₀).*
The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, February 1st.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick‡	43	43	43·0	+0·6	SCOTLAND, W. ..	Lamlash	43	41	42·5	-1·4
	Kirkwall	42	39	40·4	+0·2		Ballantrae	43	42	42·2	+0·1
	Wick	43	41	42·5	-1·3	ENGLAND, N.W. ..	Port Erin	47	44	45·9	+1·2
SCOTLAND, E. ..	Cromarty	41	37	38·8	+0·2	ENGLAND, S.W. ..	Newquay	48	48	48·0	+2·5
	Pennan Bay	42	39	40·0	+0·2		Scilly	50	49	49·6	—
	Aberdeen, Cove Bay	42	41	41·8	+2·6		Plymouth‡	49	47	47·8	+1·4
ENGLAND, N.E. ..	Burnmouth, Berwick	39	38	38·3	-0·9		Salcombe	48	45	47·1	+1·8
	Scarborough	48	44	46·0	+6·1	IRELAND, N.W. ..	Sheephaven	45	40	43·8	-0·8
ENGLAND, E. ..	Shipwash Lightship	46	45	45·9	+6·7		Teelin	46	43	44·2	+0·7
	Margate‡	45	42	43·7	+4·5	IRELAND, S.W. ..	Cleggan	48	45	46·7	+2·8
ENGLAND, S.E. ..	Eastbourne‡	45	44	44·4	+5·0	IRELAND, E.	Seafield	55	50	52·8	+7·7
							.. ..	—	—	—	—

‡ Only one observation each day

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.
The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.
The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.
Information for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.
Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIFTH WEEK—January 26th to February 1st, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	47	22	41·2	33·8	37·7	− 0·2	0	− 7	30	− 7	6	0	1·77	+0·34	0·3	−0·9	3	−12
Eastern.																		
1. SCOTLAND, EAST ...	48	13	39·8	31·4	35·8	− 2·0	0	− 9	43	+ 2	5	+ 1	0·84	+0·27	1·1	−0·9	13	−11
2. ENGLAND, N.E.	48	25	41·1	32·8	37·1	− 2·1	0	− 10	34	+ 3	4	− 1	0·60	+0·24	1·8	−0·2	21	− 3
3. ENGLAND, EAST ...	51	27	43·8	34·8	39·4	+ 0·5	5	− 5	27	− 7	4	0	0·86	+0·48	2·1	−0·2	24	− 3
4. MIDLAND COUNTIES ...	53	25	42·7	32·9	38·0	− 1·1	2	− 10	34	0	4	0	0·71	+0·20	1·5	−0·5	17	− 5
5. ENGLAND, S.E.	51	28	45·0	36·5	40·9	+ 0·5	8	− 6	22	− 3	5	0	1·05	+0·52	1·6	−0·4	18	− 5
Western.																		
6. SCOTLAND, WEST ...	49	24	41·9	34·2	38·2	− 1·7	0	− 12	27	0	4	0	1·40	+0·37	0·7	−1·0	8	−12
7. ENGLAND, N.W.	51	23	42·7	34·2	38·6	− 1·4	2	− 9	29	+ 4	4	− 1	0·85	+0·15	1·2	−0·5	13	− 5
8. ENGLAND, S.W.	53	19	45·4	36·5	41·1	− 0·5	10	− 7	23	+ 3	6	+ 1	1·34	+0·52	0·9	−1·1	10	−13
9. IRELAND, NORTH ...	52	24	44·6	35·8	40·4	− 0·3	7	− 7	25	+ 2	6	+ 1	1·02	+0·25	0·6	−1·2	6	−14
10. IRELAND, SOUTH ...	55	24	47·7	35·7	41·9	− 0·5	16	− 5	27	+10	6	+ 2	1·36	+0·54	1·6	−0·4	18	− 4
11. ENGLISH CHANNEL ...	52	37	48·6	41·6	45·2	+ 0·8	24	0	1	− 7	6	+ 1	1·89	+1·14	1·0	−1·5	11	−16

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 9 Weeks, December 1st, 1912, to February 1st, 1913.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	71	+ 3	231	− 65	48	0	14·25	+2·21	0·5	−0·2	7	− 4
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	64	− 3	337	− 20	41	+ 4	6·66	+1·12	0·8	−0·4	11	− 7
2. ENGLAND, N.E.	58	18	*	*	*	*	115	+ 39	221	− 69	38	+ 5	5·02	+1·02	0·8	−0·5	10	− 8
3. ENGLAND, EAST ...	59	20	*	*	*	*	154	+ 72	155	−176	42	+ 7	5·37	+1·67	1·1	−0·5	13	− 7
4. MIDLAND COUNTIES ...	59	13	*	*	*	*	159	+ 65	201	−132	41	+ 7	6·94	+2·36	0·9	−0·4	11	− 6
5. ENGLAND, S.E.	59	22	*	*	*	*	222	+ 98	97	−146	40	+ 5	7·47	+2·59	1·3	−0·3	16	− 3
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	122	+ 22	183	− 47	48	+ 6	12·29	+2·17	0·6	−0·5	8	− 7
7. ENGLAND, N.W.	60	8	*	*	*	*	158	+ 59	151	− 82	45	+ 7	8·35	+1·91	0·8	−0·4	11	− 4
8. ENGLAND, S.W.	57	19	*	*	*	*	231	+ 67	78	− 96	52	+12	13·04	+4·83	1·0	−0·6	13	− 7
9. IRELAND, NORTH ...	58	20	*	*	*	*	185	+ 63	137	− 66	53	+ 9	10·56	+3·24	0·9	−0·4	12	− 6
10. IRELAND, SOUTH ...	58	20	*	*	*	*	245	+ 51	112	− 40	58	+17	12·44	+3·85	1·2	−0·4	15	− 5
11. ENGLISH CHANNEL ...	56	35	*	*	*	*	346	+ 92	9	− 49	55	+11	9·92	+3·00	1·3	−0·7	16	− 8

THE YEAR.—Aggregates, &c., for the Period of 5 Weeks, December 29th, 1912, to February 1st, 1913.

0. SCOTLAND, NORTH ...	54	22	*	*	*	*	31	− 3	131	− 43	23	− 4	5·04	− 1·70	0·6	−0·3	9	− 3
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	19	− 18	211	+ 10	21	+ 1	3·20	+ 0·30	0·8	−0·6	11	− 9
2. ENGLAND, N.E.	53	18	*	*	*	*	27	− 14	148	− 17	21	+ 2	3·14	+ 1·16	0·9	−0·5	11	− 8
3 ENGLAND, EAST ...	55	20	*	*	*	*	48	+ 5	110	− 78	22	+ 3	2·92	+ 0·96	1·4	−0·4	18	− 4
4. MIDLAND COUNTIES ...	55	13	*	*	*	*	50	− 2	138	− 48	22	+ 3	3·77	+ 1·31	0·9	−0·6	12	− 7
5. ENGLAND, S.E.	53	22	*	*	*	*	83	+ 22	74	− 68	21	+ 2	4·19	+ 1·62	1·6	0·0	19	− 1
Western.																		
6. SCOTLAND, WEST ...	52	17	*	*	*	*	39	− 13	123	− 11	23	0	6·33	+ 1·05	0·8	−0·4	10	− 6
7. ENGLAND, N.W.	55	10	*	*	*	*	51	+ 1	108	− 26	22	+ 1	4·16	+ 0·73	1·1	−0·2	14	− 3
8. ENGLAND, S.W.	54	19	*	*	*	*	91	+ 7	65	− 39	29	+ 7	6·97	+ 2·83	1·3	−0·4	15	− 5
9. IRELAND, NORTH ...	55	21	*	*	*	*	67	0	101	− 15	28	+ 4	5·41	+ 1·52	1·1	−0·3	14	− 4
10. IRELAND, SOUTH ...	56	22	*	*	*	*	102	− 1	90	+ 4	30	+ 8	7·53	+ 3·06	1·3	−0·4	17	− 4
11. ENGLISH CHANNEL ...	53	35	*	*	*	*	155	+ 30	9	− 30	30	+ 6	5·94	+ 2·52	1·6	−0·5	19	− 6

M.O., February 5, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 6. SIXTH WEEK, SUNDAY, FEBRUARY 2ND, TO SATURDAY, FEBRUARY 8TH, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather continued very unstable generally. In Ireland, Scotland, and the north-west of England more or less precipitation occurred every day, and in most other districts there were few dry days. At many stations in the east and south-east of England, however, the greater part of the period was without rain. Snow and sleet fell at several places in the north early in the week. Lightning was observed at West Linton and Fort William on the night of the 6th, and thunder was heard at the latter station on the 7th and at Poltalloch on the 2nd.

Temperature was above the average, the excess being more than 6° in England E. and S.E. and more than 4° over the greater part of the Kingdom. The highest of the maxima were registered on various dates, and ranged from 57° in Ireland, and 56° in some English districts, to 51° in Scotland W. and 50° in Scotland N. The lowest of the minima, which were recorded on the 2nd at most places, but much later in the week in several localities, varied from 26° in Scotland N. and 27° in Scotland E. to 32° in Ireland N. and to 38° in the English Channel. The lowest grass readings were 21° at West Linton, 22° at Rauceby, Little Massingham, Worksop, Raunds and Hampstead, and 23° or 24° at many other stations. In all parts of the Kingdom the temperature of the earth at a depth of 1 foot was above the average, and except at some Scottish stations it was above it at a depth of 4 feet also.

Mean Temperature of the Sea was higher than during the corresponding week of last year. On most parts of the coast the difference was considerable; at Eastbourne it was as much as 6°·5, at Seafield 8°, and at Scarborough nearly 10°. As a whole the temperature was above the normal, the divergence being very striking on the east and south-east coasts of England. The highest weekly mean was 49°·4, recorded at Scilly and Seafield, and the lowest about 38°·5 at Cromarty and Burnmouth.

Rainfall exceeded the average except in England N.E., E., and S.E., and the English Channel. In the extreme N. and N.W. of the Kingdom the excess was large. As much as 2·4 in. fell at Glencarrron on the 2nd, and 1·2 in. at Fort Augustus on the 3rd; while at Fort William there was 1·7 in. on the 2nd and 1·1 in. on the 6th.

Bright Sunshine was much below the normal, the percentage of the possible duration ranging from 20 in the English Channel and 19 in England E. to 8 in Scotland W. and England N.W., and to 6 in Scotland N.

Barometer and Wind. A Southerly to Westerly type of pressure distribution was again prevalent over the United Kingdom. As a rule the cyclonic centres passed along to the north-westward or northward of these Islands, and gales were confined to the most exposed parts of the western and northern coasts, but on Sunday they were also experienced on the south-western coasts and the Channel, and on Friday, when a very deep secondary disturbance moved in a north-easterly direction over the north-western and northern districts, a general gale occurred. On most parts of the coast the greatest force of the gale was after the wind had veered from the Southward to the South-Westward or Westward, and in some parts of Scotland and the North of Ireland when the direction had become North-Westerly. In Southport the gale lasted from 6 p.m. on the 7th to 6.30 a.m. on the 8th, and the extreme force was 11 from West-South-West (from 10 to 11 p.m.). During this time several of the squalls attained the velocity of 86 miles per hour. By the end of the period another depression off Ireland had caused the wind to back to the South-West or South again, and gales from these points were felt on a few parts of the western coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 23.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Very unusual	Unusual	Unusual	Unusual	Very unusual	Unusual	Unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Very heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Heavy	Heavy	Moderate	Heavy	Moderate	Moderate
	Sunshine ...	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Very scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 10 weeks from Dec. 1st, 1912.	Warmth ...	3 * 3	3 * 3	5 * 2	5 * 1	6 * 1	7 * 0	6 * 3	6 * 1	6 * 1	7 * 1	6 * 2	7 * 0
	Rainfall ...	6 * 3	5 * 1	4 * 1	5 * 1	5 * 1	5 * 0	5 * 1	5 * 1	7 * 1	6 * 0	5 * 0	5 * 1
	Sunshine ...	1 * 5	0 * 6	1 * 7	1 * 6	1 * 7	2 * 5	0 * 7	1 * 3	0 * 7	0 * 6	0 * 6	0 * 8

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(28559—24.) Wt. 173—814. 450. 2/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*47*	*3rd*	*32*	*2, 3, 5*	*42·6*	*34·6*	*38·3*	—	*2*	*28*	•	•	37·1	•	•	•	*7*	*2·01*	—	*0·8*	—	*10*	—	*Baltasound.*
a, Islands .. *a* Lerwick	48	3rd	32	2nd	43·4	35·6	39·5	+ 1·3	4	23	•	•	•	•	•	•	7	2·20	—	0·6	— 1·1	7	-13	Deerness.
a Stornoway	50	3rd	32	2nd	46·3	35·4	40·9	+ 1·9	12	26	•	•	•	•	•	•	7	2·05	+ 0·98	0·5	— 1·3	6	-15	Stornoway.
a Castlebay, Barra Isd. .	*49*	*2, 3*	*33*	*6th*	*47·1*	*37·0*	*42·1*	+ *0·9*	*22*	*14*	•	•	•	•	•	•	7	*1·25*	—	*0·4*	—	*5*	—	*Castlebay.*
a Wick	50	3rd	31	6th	43·3	33·9	38·6	+ 1·0	4	29	•	•	•	•	•	•	7	0·78	+ 0·22	•	•	•	•	
b, Main- *p* Strathpeffer ..	50	3rd	29	6th	44·1	34·6	39·4	+ 2·3	6	28	•	•	•	•	•	•	7	1·83	+ 1·16	0·6	— 1·3	7	-15	Strathpeffer.
land. *p* Glencarron ..	48	3rd	30	5th	44·0	34·6	39·3	+ 2·8	6	27	•	•	•	•	•	•	7	5·97	+ 4·07	•	•	•	•	
p Fort Augustus..	49	3rd	26	6th	44·1	33·9	39·0	+ 1·3	6	30	•	•	•	•	•	•	7	4·71	+ 3·63	0·2	— 1·0	2	-12	Fort Augustus.
p Fort William ..	50	3rd	31	6th	46·4	35·6	41·0	+ 1·9	12	25	•	•	•	•	•	•	7	5·61	+ 3·74	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	54	3rd	29	5th	46·1	35·3	40·7	+ 2·5	11	26	3	25	35·1	+0·4	37·1	−0·2	—	—	—	1·5	—	18	—	Crathes S.
a Nairn	50	3rd	29	6th	43·6	33·6	38·6	+ 1·2	4	31	•	•	•	•	•	•	7	0·91	+ 0·41	*1·5*	—	*18*	—	*Gordon Castle.*
a Aberdeen ..	53	3rd	31	2, 6	47·0	35·4	41·2	+ 3·3	14	27	•	•	•	•	39·4	+0·7	5	0·57	+ 0·03	1·2	— 1·1	14	-13	Aberdeen.
a Balmoral ..	49	4th	27	6th	46·4	32·0	39·2	+ 5·2	12	38	6	23	•	•	•	•	7	1·00	+ 0·33	•	•	•	•	Balmoral.
p Crieff	49	3rd	30	6th	45·7	34·0	39·9	+ 2·2	10	31	•	•	•	•	•	•	7	2·40	+ 1·55	0·7	—	8	—	Balruddery.
a Leith	52	3, 7	34	2nd	50·6	38·4	44·5	+ 5·4	33	10	•	•	•	•	•	•	*1*	0·39	+ 0·01	•	•	•	•	
p West Linton .. S	48	3, 7	28	6th	44·7	33·7	39·2	+ 2·8	8	31	3	21	•	•	•	•	7	1·29	—	*0·5*	—	*6*	—	*West Linton.*
p Marchmont .. S	51	3rd	30	2, 6	47·0	34·3	40·7	+ 3·9	14	31	4	25	36·6	+1·8	•	•	6	0·41	− 0·12	1·4	− 0·7	16	− 8	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	51	3, 4, 7	32	6th	49·9	37·4	43·7	+ 5·7	31	13	3	26	38·1	+2·6	39·0	+0·8	5	0·38	− 0·10	1·9	—	21	—	Cockle Park.
a Shields	55	3rd	33	2, 6, 7	50·1	36·7	43·4	+ 4·6	32	15	•	•	•	•	•	•	3	0·16	− 0·18	•	•	•	•	*Newcastle.*
p Durham	52	3rd	30	2nd	48·6	37·0	42·5	+ 5·2	25	14	2	23	•	•	•	•	4	0·43	+ 0·10	1·6	− 0·5	18	− 6	Durham.
a, North .. *p* Rounton	52	3, 4	31	2, 6	48·4	36·9	42·7	+ 5·6	26	14	3	24	38·3	•	•	•	5	0·57	+ 0·19	•	•	•	•	Rounton.
a West Witton	*51*	*7th*	*31*	*6th*	*47·1*	*36·6*	*41·9*	—	*14*	*23*	2	26	38·1	•	38·9	•	7	*1·68*	—	•	•	•	•	*West Witton.*
p Scarborough	53	4th	33	2nd	47·9	38·9	43·4	+ 4·7	23	9	•	•	•	•	42·2†	•	6	0·30	− 0·14	1·4	—	16	—	Scarborough.
p York	54	8th	32	2nd	51·1	36·9	44·0	+ 5·7	35	14	•	•	39·6	+2·6	41·5	+1·	7	0·42	+ 0·03	1·0	− 0·7	11	− 8	York.
a Spurn Head ..	51	7th	33	2nd	48·4	37·6	43·0	+ 4·1	25	12	3	24	39·4	+3·0	42·0	+0·9	4	0·08	− 0·21	*0·9*	—	*10*	—	*Hull.*
b South .. *a* Lincoln	54	4th	32	2nd	51·3	38·3	44·8	+ 6·9	35	10	•	•	40·3	+4·8	41·9	+2·6	4	0·14	− 0·22	•	•	•	•	Lincoln.
a Fulbeck	53	4th	30	2nd	50·7	36·9	43·8	+ 5·6	34	14	2	22	40·6	+2·9	42·5	+0·9	4	0·12	− 0·26	1·8	—	20	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·0	—	22	—	Skegness.
3. ENGLAND, E.											2	26	40·7	+2·9	42·5	+1·9	—	—	—	*2·0*	—	*22*	—	*Lowestoft.*
p Cromer	53	4th	33	2, 6	50·4	38·1	44·3	+ 7·3	32	11	•	•	•	•	•	•	2	0·20	—	2·3	—	25	—	Cromer.
p Little Massingham ..	51	4, 7	32	2, 6	48·6	38·6	43·6	+ 6·0	25	10	2	22	•	•	•	•	2	0·21	− 0·22	1·7	− 0·5	19	− 5	Lit. Massingham
a, North .. *a* Yarmouth	53	4th	32	2nd	50·3	37·9	44·1	+ 6·5	32	11	•	•	41·0	+4·0	44·0	+3·0	4	0·27	− 0·07	2·1	—	23	—	Yarmouth.
a Norwich	53	4th	31	6th	50·4	38·9	44·7	+ 7·2	32	9	2	24	39·9	•	•	•	2	0·23	—	*2·1*	—	*23*	—	*Norwich.*
p Geldeston	53	8th	33	2, 6	49·6	39·9	44·8	+ 6·3	28	6	•	•	•	•	•	•	2	0·15	− 0·19	1·9	− 0·4	21	− 5	Geldeston.
p Cambridge	55	4th	30	6th	50·9	38·7	44·8	+ 6·5	33	9	2	23	40·9	+4·1	43·1	+2·2	4	0·30	− 0·03	1·5	− 0·8	17	− 9	Cambridge.
a Felixstowe	*52*	*3, 4*	*34*	*2, 6*	*49·1*	*39·0*	*44·1*	+ *5·6*	*27*	*8*	•	•	•	•	•	•	*2*	*0·13*	—	*1·5*	—	*17*	—	*Felixstowe.*
a Clacton-on-Sea ..	52	4th	34	2, 3	48·0	38·7	43·4	+ 4·9	24	9	2	26	42·3	+3·7	44·4	+1·6	2	0·18	—	1·5	—	16	—	Clacton.
b, South .. *a* Rothamsted	56	4th	30	6th	51·1	37·6	44·4	+ 6·8	35	12	•	•	•	•	•	•	5	0·45	0·00	1·4	− 0·7	15	− 8	Rothamsted.
a Shoeburyness	*54*	*4th*	*34*	*2nd*	*50·0*	*40·0*	*45·0*	+ *6·1*	*29*	*6*	4	23	42·4	+4·1	•	•	*1*	*0·07*	− *0·21*	*1·6*	—	*17*	—	*Southend.*
p Tottenham	55	4th	34	2nd	51·4	42·7	47·1	+ 8·1	36	0	1	29	•	•	44·4	+2·2	4	0·29	—	1·2	—	13	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	52	7th	32	2, 6	48·6	37·7	43·2	+ 6·2	26	12	2	29	38·9	+2·9	41·0	+1·2	—	—	—	*1·3*	—	*14*	—	*Huddersfield.*
a Bawtry	54	4th	31	2nd	51·4	38·1	44·8	+ 6·6	36	11	2	24	39·2	+2·1	39·9	+0·9	7	0·73	+ 0·21	0·9	—	10	—	Harrogate.
p Buxton	*48*	*3, 7, 8*	*31*	*2nd*	*46·1*	*37·0*	*41·6*	+ *6·1*	*11*	*21*	2	22	39·6	•	40·9	•	6	0·32	− 0·06	1·2	−0·6	13	− 6	Worksop.
a East .. *a* Nottingham	54	4th	31	2, 6	50·9	36·9	43·9	+ 5·9	35	14	4	24	38·7	+2·8	42·1	+1·5	7	*1·29*	+ *0·29*	*0·9*	—	*10*	—	*Buxton.*
p Birmingham, Edgbsn.	51	4th	33	2, 6	48·6	39·3	44·0	+ 6·0	25	8	2	23	39·9	+4·3	40·2	+2·0	5	0·16	− 0·24	1·2	—	13	—	Nottingham.
a Raunds	54	4th	30	6th	51·1	36·0	43·6	+ 5·9	36	17	2	23	41·6	+3·1	44·0	+1·0	6	0·28	− 0·14	1·2	—	13	—	Birmingham.
p Oxford	54	4th	34	2nd	50·9	40·9	45·9	+ 6·9	32	3	2	22	40·1	•	44·0	•	2	0·26	—	•	•	•	•	Raunds.
											1	29	•	•	•	•	5	0·46	+ 0·06	1·3	− 0·8	14	− 9	Oxford.
											2	27	39·4	+3·2	41·4	+1·4	—	—	—	1·5	—	17	—	Sheffield.
a Cheadle	50	3, 4	32	2nd	46·6	37·1	41·9	+ 4·8	13	21	4	27	•	•	•	•	4	0·55	+ 0·04	•	•	•	•	Cheadle.
p Shrewsbury ..	53	6th	32	6th	51·3	39·9	45·6	+ 6·5	34	6	2	25	•	•	•	•	5	0·80	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	52	4th	30	6th	50·4	37·9	44·2	+ 5·3	33	11	2	25	•	•	•	•	7	1·03	+ 0·53	•	•	•	•	Hereford.
a Cirencester	51	7th	29	6th	49·0	35·3	42·2	+ 4·5	30	19	1	28	41·2	•	43·1	•	7	0·94	+ 0·44	0·3	− 1·9	3	-20	Cirencester.
a Bath	55	4, 7	33	2nd	53·1	39·4	46·3	+ 6·3	41	7	•	•	42·9	+4·0	45·7	+2·2	5	0·52	+ 0·01	1·2	—	13	—	Bath.
5. ENGLAND, S.E.																								
p Kew	53	4, 7	34	2nd	50·6	42·1	46·4	+ 7·1	31	0	2	29	42·5	+4·5	45·2	+2·5	—	—	—	•	•	•	•	Canterbury
a Marlborough	52	4th	33	2nd	49·7	39·3	44·5	+ 6·6	29	8	1	28	42·6	+5·6	44·8	+2·8	4	0·31	− 0·06	0·9	− 0·9	10	-10	Kew.
a Margate	52	3, 4, 7	38	2nd	50·7	44·3	47·5	+ 8·1	39	0	2	28	•	•	45·9	•	6	0·57	+ 0·02	0·9	− 1·0	10	-10	Marlborough.
a Wisley, Surrey ..	53	4, 7	33	2nd	50·6	41·4	46·0	+ 6·4	31	2	0	32	44·2	+5·8	46·0	+5·2	2	0·32	− 0·04	1·6	− 0·6	17	− 6	Margate.
a Swarraton	54	4th	32	2nd	50·3	40·9	45·6	+ 7·4	30	3	1	27	42·4	+5·2	43·9	+2·7	4	0·27	—	1·1	—	12	—	Wisley
a Tunbridge Wells ..	51	4, 7	31	2nd	48·9	40·0	44·5	+ 6·3	26	6	1	25	44·4	+6·1	46·0	+3·4	5	0·65	+ 0·10	1·7	—	18	—	Worthing.
a Dungeness	51	4, 7, 8	31	2nd	49·7	42·3	46·0	+ 6·5	28	0	•	•	41·6	+5·0	•	•	5	0·65	+ 0·11	1·7	− 0·4	18	− 4	Tunbridge Wells
p Hastings..	51	3, 4	33	2nd	49·4	43·7	46·6	+ 6·8	32	0	1	29	43·4	•	44·9	•	2	0·32	− 0·06	1·5	—	16	—	Littlestone.
p Southampton	54	4th	32	2nd	51·4	42·9	47·2	+ 6·5	36	0	1	26	•	•	•	•	5	0·52	+ 0·02	*1·3*	− *1·2*	*14*	*-13*	*Hastings.*
a Ventnor	52	3rd	36	2nd	50·4	44·1	47·3	+ 5·7	37	0	•	•	•	•	•	•	4	0·65	+ 0·12	1·6	− 0·7	17	− 8	Southampton
											•	•	•	•	•	•	5	0·28	− 0·24	1·3	− 1·2	14	-13	Ventnor.
											0	31	45·4	+6·4	46·4	+3·2	—	—	—	*1·3*	—	*14*	—	*Portsmouth.*
											•	•	44·9	•	46·4	•	—	—	—	1·2	1·2	13	-13	Eastbourne.
											•	•	43·7	•	44·3	•	—	—	—	*1·5*	—	*16*	—	*Bournemouth.*
LONDON.															44·4	•	—	—	—	*1·1*	*1·3*	*18*	*-14*	*Brighton.*
a Westminster	*55*	*4, 8*	*33*	*2nd*	*52·6*	*41·9*	*47·3*	+ *8·0*	*38*	*0*	1	30	•	•	•	•	*4*	*0·27*	− *0·11*	*0·8*	− *0·2*	*9*	− *2*	*Westminster.*
a Greenwich	*55*	*4th*	*33*	*2nd*	*51·1*	*41·0*	*46·1*	+ *7·1*	*33*	*3*	1	28	•	•	•	•	*4*	*0·27*	− *0·09*	*1·3*	− *0·5*	*14*	− *6*	*Greenwich.*
a Hampstead	*53*	*4th*	*32*	*2nd*	*49·3*	*39·4*	*44·4*	—	*28*	*7*	2	22	•	•	•	•	*4*	*0·29*	—	*1·1*	—	*12*	—	*Hampstead.*
a Camden Square ..	*55*	*4th*	*32*	*2nd*	*51·6*	*40·1*	*45·9*	—	*35*	*5*	2	27	•	•	•	•	*4*	*0·26*	—	*0·9*	—	*10*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	50	3rd	33	2, 6	47·1	37·3	42·2	+ 3·5	21	13	•	•	•	•	•	•	7	2·73	+ 1·80	•	•	•	•	
p Glasgow	50	7th	35	2, 6	47·3	38·3	42·8	+ 4·3	21	10	1	29	•	•	•	•	7	2·17	+ 1·49	0·4	− 0·9	5	-10	Glasgow.
p Rothesay	50	3rd	33	5, 6	47·7	37·4	42·6	+ 3·1	24	13	•	•	•	•	41·2	−0·4	7	2·34	+ 1·43	•	•	•	•	
a Kilmarnock ..	51	7th	32	6th	48·6	38·0	43·3	+ 4·4	26	11	•	•	•	•	•	•	7	1·24	—	*0·4*	—	*5*	—	*Kilmarnock.*
a Colmonell	50	3, 7	35	2, 6	48·0	38·7	43·4	+ 4·9	24	9	1	30	•	•	•	•	7	1·40	+ 0·48	•	•	•	•	
p Dumfries	50	3, 4	30	6th	47·1	37·1	42·1	+ 3·5	21	14	2	28	38·7	•	40·0	•	7	1·37	+ 0·61	*0·9*	—	*10*	—	*Dumfries.*
p Cally, Gatehouse S	49	4, 6	31	6th	47·6	38·7	43·2	+ 4·8	22	9	•	•	•	•	•	•	7	1·46	+ 0·46	•	•	•	•	
b I. OF MAN																								
p Douglas	50	7th	36	2nd	48·0	40·6	44·3	+ 4·0	22	4	1	29	•	•	•	•	7	1·00	+ 0·20	1·0	− 1·2	11	-14	Douglas.
											2	30	39·0	+3·1	40·8	+0·8	—	—	—	*0·6*	—	*7*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											1	29	•	•	•	•	—	—	—	0·3	—	3	—	Hoylake.
p Aspatria	50	8th	33	6th	47·1	36·7	41·9	+ 4·2	14	22	1	28	40·4	•	42·3	•	7	1·93	+ 1·33	0·7	—	8	—	Aspatria.
p Newton Rigg	51	7th	31	2, 6	47·3	35·7	41·5	+ 4·9	15	26	5	22	39·1	+2·3	39·9	+0·5	7	2·06	+ 1·32	0·8	− 1·1	9	-13	Newton Rigg.
p Stonyhurst	51	7th	33	2nd	47·7	39·1	43·4	+ 5·4	22	8	3	23	•	•	•	•	7	1·39	+ 0·56	0·6	− 1·2	7	-13	Stonyhurst.
p Blackpool	52	7th	35	6th	48·3	40·6	44·5	+ 5·8	23	4	1	25	40·9	•	43·4	•	6	1·10	+ 0·54	0·6	− 1·3	7	-15	Blackpool.
p Manchester (Whit Pk.)	53	7th	34	2nd	50·0	41·3	45·7	+ 6·4	29	2	3	29	•	•	•	•	6	0·72	+ 0·26	*0·7*	− *0·3*	*8*	− *3*	*Whit. Park.*
a Liverpool (Bidston) ..	54	7th	35	2, 6, 7	51·4	38·0	44·7	+ 5·3	36	11	•	•	•	•	•	•	7	0·38	− 0·16	*1·1*	—	*12*	—	*Liverpool.*
a Hawarden Bridge ..	56	7th	34	8th	53·4	39·4	46·4	+ 6·3	42	7	2	29	39·9	+4·2	40·5	+1·6	6	0·52	+ 0·16	*0·7*	− *1·3*	*8*	-14	*Southport.*
											0	31	40·5	+4·1	42·4	+1·2	—	—	—	*0·5*	—	*6*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	55	7th	37	6th	50·3	42·6	46·5	+ 5·2	32	0	•	•	•	•	•	•	6	0·53	+ 0·01	1·1	− 1·1	12	-12	Llandudno.
a Holyhead	51	7th	36	2nd	49·4	41·7	45·6	+ 4·2	26	1	•	•	•	•	•	•	6	1·10	+ 0·48	0·7	—	8	—	Aberdovey.
p Bettws-y-Coed ..	53	7th	35	2nd	50·4	41·1	45·8	+ 5·4	30	3	2	30	41·6	+3·5	43·6	+1·4	7	2·55	—	1·0	—	11	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	*	*	*	0·7	—	8	—	Aberystwyth.
a Llangammarch Wells	51	7th	28	6th	49·7	37·7	43·7	+ 5·7	30	12	2	23	41·3	+2·9	44·0	+1·0	7	2·16	—	1·0	—	11	—	Llangammarch
a Pembroke	52	4,7	39	2nd	50·9	44·1	47·5	+ 5·4	39	0	*	*	*	*	*	*	6	1·27	+ 0·61	0·9	- 1·5	10	-16	Pembroke.[Wells
p Cardiff	53	4th	33	6th	50·6	40·7	45·7	+ 6·0	31	4	2	27	42·4	+3·8	44·2	+2·2	7	1·09	+ 0·35	*1·3*	—	*14*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	53	4,7	35	2nd	51·7	41·1	46·4	+ 6·4	35	3	1	30	*	*	*	*	6	0·56	- 0·02	*1·0*	—	*11*	—	*Clifton.*
a Shaftesbury	52	4th	31	2nd	48·6	38·6	43·6	+ 5·5	25	10	*	*	42·0	*	43·8	*	5	0·28	- 0·30	*	*	*	*	Shaftesbury.
a Arlington	51	6,7	33	2nd	49·0	37·7	43·4	+ 4·2	28	12	*	*	*	*	*	*	5	0·95	- 0·01	*	*	*	*	Arlington.
a Newquay	*54*	*4th*	*39*	*2,6*	*51·7*	*43·4*	*47·6*	*+ 4·3*	*39*	*0*	*	*	45·7	*	*	*	*6*	*0·55*	*- 0·10*	1·7	- 0·7	18	- 8	*Newquay.*
a Cullompton	56	4th	33	2nd	52·1	39·6	45·9	+ 5·7	37	7	1	27	43·7	*	*	*	7	0·50	- 0·18	1·1	- 1·0	12	-11	Cullompton.
a Portland	51	3,4,6	39	2nd	50·1	45·1	47·6	+ 6·1	39	0	*	*	*	*	*	*	6	0·73	—	*1·6*	—	*17*	—	*Weymouth.*
p Plymouth	55	4th	37	2nd	51·7	45·1	48·4	+ 6·4	45	0	1	29	45·3	+4·9	*	*	6	0·87	+ 0·19	1·2	- 1·1	13	-12	Plymouth.
p Falmouth	52	4,7	38	2nd	50·7	44·7	47·7	+ 4·6	40	0	*	*	*	*	*	*	5	1·26	+ 0·36	1·5	- 1·0	16	-11	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	50	3,7,8	32	2nd	48·3	37·7	43·0	+ 2·2	25	12	*	*	*	*	*	*	7	1·07	+ 0·52	*	*	*	*	* *
a Blacksod Point ..	52	7th	35	2nd	50·0	41·0	45·5	+ 3·0	29	3	*	*	*	*	*	*	7	2·19	+ 1·24	*	*	*	*	* *
p Markree Castle ..	57	7th	33	2,8	51·3	37·3	44·3	+ 4·5	36	13	2	27	41·8	*	43·9	*	7	1·53	+ 0·76	1·4	- 0·5	16	- 6	Markree Castle.
a Birr Castle	56	7th	32	2nd	51·9	38·0	45·0	+ 5·0	38	11	*	*	*	*	*	*	7	0·72	+ 0·17	*1·5*	*- 0·6*	*17*	*- 7*	*Birr Castle.*
b, East .. *p* Armagh	55	7th	32	2nd	50·0	36·3	43·2	+ 3·4	32	16	0	31	40·7	+1·0	42·7	+0·1	7	0·72	+ 0·19	1·4	- 0·6	16	- 6	Armagh.
a Donaghadee	52	3rd	33	2nd	49·7	38·9	44·3	+ 3·8	29	9	*	*	*	*	*	*	7	0·90	+ 0·33	*	*	*	*	* *
											3	25	42·4	+2·0	44·3	+1·3	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											3	25	*	*	*	*	—	—	—	1·1	- 1·3	12	-14	Phœnix Park.
p Dublin, City	56	7th	34	2nd	52·3	40·6	46·5	+ 4·4	37	4	0	32	*	*	*	*	7	0·25	- 0·25	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	55	7th	30	2nd	51·6	37·7	44·7	+ 4·1	37	12	*	*	*	*	*	*	7	0·63	- 0·02	*	*	*	*	* *
a Waterford	53	9th	33	2nd	51·4	41·9	46·7	+ 5·4	33	0	*	*	*	*	*	*	5	1·03	+ 0·17	*	*	*	*	* *
a Birr Castle	56	7th	32	2nd	51·9	38·0	45·0	+ 5·0	38	11	*	*	*	*	*	*	7	0·72	+ 0·17	1·5	- 0·6	17	- 7	Birr Castle.
a Foynes	57	8th	35	2nd	52·7	40·1	46·4	+ 4·1	39	5	*	*	*	*	*	*	7	0·64	- 0·13	*	*	*	*	* *
a Cahir	54	7th	31	2nd	50·9	37·7	44·3	+ 3·1	34	12	*	*	*	*	*	*	7	1·02	—	*	*	*	*	* *
b, West .. *a* Killarney ..	55	3,7,8	34	2nd	52·8	41·6	47·2	+ 4·7	38	1	*	*	*	*	*	*	7	2·25	+ 0·96	*	*	*	*	* *
a Valencia	54	7,8	36	2nd	52·1	42·4	47·3	+ 3·0	37	0	*	*	*	*	*	*	7	1·68	+ 0·44	1·0	- 1·3	11	-14	Valencia.
a Roche's Point ..	52	7th	36	2nd	51·0	42·7	46·9	+ 3·6	34	0	*	*	*	*	*	*	7	0·93	- 0·03	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	7th	38	2nd	52·0	44·6	48·3	+ 3·1	44	0	*	*	*	*	*	*	6	0·47	- 0·20	1·5	- 1·2	16	-13	Scilly.
a Jersey, St. Aubins ..	54	3,7	40	2nd	52·6	45·1	48·9	+ 6·3	48	0	*	*	*	*	*	*	2	0·27	- 0·35	2·1	- 0·9	22	- 9	St. Heliers.
a Guernsey (Villa Carey)	53	6,8	40	2nd	51·7	46·3	49·0	+ 5·6	49	0	0	35	45·9	+4·3	47·0	+2·1	3	0·71	+ 0·04	1·9	- 0·4	20	- 8	Guernsey.*

Additional Sunshine Means:—*Bognor, 1·5 hrs. 16 %; Ramsgate, 1·9 hrs. 20 %; Rhyl, 1·2 hrs. 13 %; Salcombe, 1·4 hrs. 15 %; Tenby, 1·0 hrs. (−1·5) 11 % (− 16 %); Torquay, 1·7 hrs. (−0·8) 18 % (−8 %).*
The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, February 8th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	44	42	42·8	+0·6	SCOTLAND, W. ..	Lamlash	46	43	44·0	+0·2
	Kirkwall	42	40	40·7	+0·1		Ballantrae	43	42	42·4	0·0
	Wick	42	41	41·1	-2·5	ENGLAND, N.W. ..	Port Erin	47	46	46·3	+1·8
SCOTLAND, E. ..	Cromarty	40	37	38·5	-0·2		Newquay	48	48	48·0	+2·2
	Pennan Bay	41	39	39·7	-0·4	ENGLAND, S.W. ..	Scilly	51	48	49·4	—
	Aberdeen, Cove Bay	42	41	41·9	+2·3		Plymouth‡	49	48	48·3	+2·1
ENGLAND, N.E. ..	Burnmouth, Berwick	39	38	38·7	-0·4		Salcombe	49	45	46·7	+1·7
	Scarborough	49	42	46·3	+6·2	IRELAND, N.W. ..	Sheephaven	46	43	44·6	0·0
ENGLAND, E. ..	Shipwash Lightship	46	44	45·6	+6·5		Teelin	48	44	45·2	+1·3
ENGLAND, S.E. ..	Margate‡	45	43	44·0	+4·8	IRELAND, S.W. ..	Cleggan	47	41	43·8	-0·1
	Eastbourne‡	46	45	45·3	+6·0		Seafield	54	46	49·4	+4·2
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.
The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.
The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.
Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.
Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

SIXTH WEEK—February 2nd to February 8th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	50	26	44·5	34·8	39·7	+ 2·5	7	+ 1	27	−15	7	+ 2	3·31	+2·07	0·5	−1·1	6	−13
Eastern.																		
1. SCOTLAND, EAST ...	54	27	46·4	34·6	40·5	+ 3·6	12	+ 4	29	−17	7	+ 3	1·10	+0·55	1·1	−1·3	13	−15
2. ENGLAND, N.E.	55	30	49·5	37·4	43·5	+ 4·8	30	+ 20	13	−21	5	+ 2	0·29	−0·09	1·6	−0·8	18	− 9
3. ENGLAND, EAST ...	56	30	50·1	39·0	44·6	+ 6·2	31	+ 20	8	−30	3	− 1	0·25	−0·12	1·7	−0·8	19	− 9
4. MIDLAND COUNTIES ...	55	29	50·2	38·0	44·1	+ 5·5	32	+ 20	11	−26	5	+ 1	0·53	+0·06	1·1	−1·1	12	−12
5. ENGLAND, S.E.	54	31	50·2	42·1	46·2	+ 6·2	29	+ 15	0	−28	4	+ 1	0·45	−0·07	1·4	−0·9	15	− 9
Western.																		
6. SCOTLAND, WEST ...	51	30	47·7	38·3	43·0	+ 4·4	23	+ 13	10	−22	7	+ 2	1·71	+0·73	0·7	−1·3	8	−15
7. ENGLAND, N.W.	56	31	49·5	39·6	44·6	+ 5·0	28	+ 17	7	−21	7	+ 3	1·22	+0·60	0·7	−1·3	8	−14
8. ENGLAND, S.W.	56	28	50·5	41·4	46·0	+ 4·8	31	+ 15	2	−21	6	+ 2	0·97	+0·21	1·2	−1·1	13	−12
9. IRELAND, NORTH ...	57	32	50·2	38·2	44·2	+ 3·8	31	+ 17	11	−14	7	+ 2	1·19	+0·48	1·4	−0·7	16	− 8
10. IRELAND, SOUTH ...	57	30	51·9	40·3	46·1	+ 4·0	36	+ 16	5	−14	7	+ 2	1·02	+0·22	1·2	−1·1	13	−12
11. ENGLISH CHANNEL ...	54	38	52·1	45·3	48·7	+ 4·7	47	+ 23	0	−10	4	0	0·48	−0·16	1·8	−1·0	20	−11

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 10 Weeks, December 1st, 1912, to February 8th, 1913.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	78	+ 4	258	− 80	55	+ 2	17·56	+4·28	0·5	−0·3	7	− 5
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	76	+ 1	366	− 37	48	+ 7	7·76	+1·67	0·8	−0·5	11	− 8
2. ENGLAND, N.E.	58	18	*	*	*	*	145	+ 59	234	− 90	43	+ 7	5·31	+0·93	0·9	−0·6	11	− 8
3. ENGLAND, EAST ...	59	20	*	*	*	*	185	+ 92	163	−206	45	+ 6	5·62	+1·55	1·1	−0·6	14	− 7
4. MIDLAND COUNTIES ...	59	13	*	*	*	*	191	+ 85	212	−158	46	+ 8	7·47	+2·42	0·9	−0·5	11	− 7
5. ENGLAND, S.E.	59	22	*	*	*	*	251	+113	97	−174	44	+ 6	7·92	+2·52	1·3	−0·3	16	− 4
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	145	+ 35	193	− 69	55	+ 8	14·00	+2·90	0·6	−0·6	8	− 8
7. ENGLAND, N.W.	60	8	*	*	*	*	186	+ 76	158	−103	52	+10	9·57	+2·51	0·8	−0·4	11	− 5
8. ENGLAND, S.W.	57	19	*	*	*	*	262	+ 82	80	−117	58	+14	14·01	+5·04	1·1	−0·5	13	− 7
9. IRELAND, NORTH ...	58	20	*	*	*	*	216	+ 80	148	− 80	60	+11	11·75	+3·72	1·0	−0·4	13	− 6
10. IRELAND, SOUTH ...	58	20	*	*	*	*	281	+ 67	117	− 54	65	+19	13·46	+4·07	1·2	−0·5	15	− 6
11. ENGLISH CHANNEL ...	56	35	*	*	*	*	393	+115	9	− 59	59	+11	10·40	+2·84	1·4	−0·7	17	− 8

THE YEAR.—Aggregates, &c., for the Period of 6 Weeks, December 29th, 1912, to February 8th, 1913.

0. SCOTLAND, NORTH ...	54	22	*	*	*	*	38	− 2	158	− 58	30	− 2	8·35	+ 0·37	0·6	−0·4	8	− 5
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	31	− 14	240	− 7	28	+ 4	4·30	+ 0·85	0·8	−0·8	11	−10
2. ENGLAND, N.E.	55	18	*	*	*	*	57	+ 6	161	− 38	26	+ 4	3·43	+ 1·07	1·0	−0·6	12	− 8
3 ENGLAND, EAST ...	56	20	*	*	*	*	79	+ 25	118	−108	25	+ 2	3·17	+ 0·84	1·5	−0·4	18	− 5
4. MIDLAND COUNTIES ...	55	13	*	*	*	*	82	+ 18	149	− 74	27	+ 4	4·30	+ 1·37	1·0	−0·6	12	− 8
5. ENGLAND, S.E.	54	22	*	*	*	*	112	+ 37	74	− 96	25	+ 3	4·64	+ 1·55	1·5	−0·2	18	− 2
Western.																		
6. SCOTLAND, WEST ...	52	17	*	*	*	*	62	0	133	− 33	30	+ 2	8·04	+ 1·78	0·8	−0·6	10	− 8
7. ENGLAND, N.W.	56	10	*	*	*	*	79	+ 18	115	− 47	29	+ 4	5·38	+ 1·33	1·0	−0·4	13	− 5
8. ENGLAND, S.W.	56	19	*	*	*	*	122	+ 22	67	− 60	35	+ 9	7·94	+ 3·04	1·2	−0·6	15	− 6
9. IRELAND, NORTH ...	57	21	*	*	*	*	98	+ 17	112	− 29	35	+ 6	6·60	+ 2·00	1·1	−0·4	14	− 5
10. IRELAND, SOUTH ...	57	22	*	*	*	*	138	+ 15	95	− 10	37	+10	8·55	+ 3·28	1·3	−0·5	16	− 6
11. ENGLISH CHANNEL ...	54	35	*	*	*	*	202	+ 53	9	− 40	34	+ 6	6·42	+ 2·36	1·6	−0·6	19	− 7

M.O., February 12, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 7. SEVENTH WEEK, SUNDAY, FEBRUARY 9TH, TO SATURDAY, FEBRUARY 15TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather was more or less rainy early in the week, but afterwards became fair and dry. The latter conditions were, however, accompanied by much mist and fog over England, and, locally, in Ireland and Scotland.

Temperature was above the normal, the excess being as much as 5° in Scotland N., and about 4½° in Scotland E., but less than 1° in England S.W. The highest of the maxima occurred very commonly between the 9th and 11th, and ranged from 60° in the English Channel, and 58° in England E. and N.W. and Ireland S. to 53° in Scotland N. At Sheepstor, on the slopes of Dartmoor, the thermometer on the 12th rose to 61°, and on the 14th to 60°. The lowest of the minima, which were recorded on various dates, but mostly in the latter half of the week, ranged from 19° in England S.W. and 23° in the Midland Counties to 33° in Scotland N. and to 35° in the English Channel. The lowest grass readings reported were 16° at Llangammarch Wells, 17° at Birmingham and 20° at Wisley and Plymouth. The temperature of the soil remained above the average at a depth both of 1 foot and 4 feet, and in many English districts the excess was considerable.

Mean Temperature of the Sea. On almost all parts of the coast the temperature of the sea water was higher than the average, and also higher than during the corresponding week of last year. The means for the week varied from 51°·5 at Seafield, and 50° at Scilly to 41° at Cromarty and to about 38° at Burnmouth.

Rainfall was considerably less than the average in nearly all districts.

Bright Sunshine exceeded the normal in England S.W. and the English Channel, but was much less over the Kingdom as a whole. Owing to the prevalence of fog the local variations were on some occasions very large. The percentage of the possible duration ranged from 38 in the English Channel and 32 in England S.W. to 14 in Ireland S., 13 in England E. and to only 5 in Scotland W.

Barometer and Wind. During the early days of the week a Southerly type of distribution continued to prevail, but subsequently a large anticyclone extended over these Islands from the Continent and increased in intensity, causing the wind to become very light and variable over England. On the 15th a very shallow depression, which had developed over the east of England within the borders of the anticyclone, produced slight rain in many localities; in London a dense high fog prevailed, causing nocturnal darkness throughout the greater part of the day.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 27.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Unusual	Unusual	Very unusual
	Rainfall ...	Light	Light	Moderate	Moderate	Moderate	Light	Light	Moderate	Light	Light	Light	Very light
	Sunshine ...	Moderate	Moderate	Moderate	Very scanty	Scanty	Scanty	Very scanty	Moderate	Moderate	Scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 11 weeks from Dec. 1st, 1912.	Warmth ...	4 * 3	4 * 3	6 * 2	5 * 1	6 * 1	7 * 0	7 * 3	6 * 1	6 * 1	8 * 1	7 * 2	8 * 0
	Rainfall ...	6 * 4	5 * 2	4 * 1	5 * 1	5 * 1	5 * 1	5 * 2	5 * 1	7 * 2	6 * 1	5 * 1	5 * 2
	Sunshine ...	1 * 5	0 * 6	1 * 7	1 * 7	1 * 8	2 * 6	0 * 8	1 * 3	0 * 7	0 * 7	0 * 7	0 * 8

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(28654—24.) Wt. 173—814. 450. 2/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°		°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*48*	*11th*	*34*	*10th*	*45·7*	*38·6*	*41·9*	—	*10*	*17*	•	•	39·6	•	•	•	*6*	*0·21*	—	*1·0*	—	*12*	—	*Baltasound.*
a Islands .. *a* Lerwick	49	11th	*36*	12th	45·9	39·1	42·5	+ 4·5	16	8	•	•	•	•	•	•	7	0·39	—	1·4	− 0·5	16	− 6	Deerness.
a Stornoway	48	10, 11, 12	36	9th	46·6	40·0	43·3	+ 4·4	18	6	•	•	•	•	•	•	7	0·42	− 0·62	1·6	− 0·5	18	− 6	Stornoway.
a Castlebay, Barra Isd.	*49*	*11th*	*36*	*10th*	*46·9*	*41·7*	*44·3*	+ 2·9	*17*	*1*	•	•	•	•	•	•	*5*	*0·45*	—	*1·7*	—	*19*	—	*Castlebay.*
a Wick	50	11th	35	10th	45·6	38·4	42·0	+ 4·5	10	10	•	•	•	•	•	•	5	0·21	− 0·34	•	•	•	•	•
b, Main- *p* Strathpeffer	53	11th	34	10th	48·9	38·1	43·5	+ 6·3	27	11	•	•	•	•	•	•	4	0·06	− 0·60	2·3	+ 0·2	25	+ 2	Strathpeffer.
land. *p* Glencarron ..	50	11th	34	9th	47·2	38·0	42·6	+ 6·1	21	11	•	•	•	•	•	•	6	0·39	− 1·40	•	•	•	•	•
p Fort Augustus..	51	12th	33	15th	46·7	37·9	42·3	+ 4·3	19	11	•	•	•	•	•	•	3	0·13	− 0·89	1·6	+ 0·2	18	+ 2	Fort Augustus.
p Fort William ..	48	10th	36	10th	45·6	38·7	42·2	+ 3·1	15	9	•	•	•	•	•	•	6	0·24	− 1·56	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle.. S	55	11th	37	9th	50·6	39·9	45·3	+ 7·0	32	6	5	24	36·6	+1·3	37·7	+0·5	—	—	—	2·8	—	31	—	Crathes S.
a Nairn .. .. S	52	11, 12	33	10th	47·9	36·7	42·3	+ 4·9	24	15	•	•	•	•	•	•	1	0·01	− 0·51	*2·5*	—	*28*	—	*Gordon Castle.*
a Aberdeen ..	52	9th	32	14th	47·1	36·1	41·6	+ 3·7	14	24	•	•	•	•	39·5	+0·8	1	0·02	− 0·51	1·8	− 0·7	20	− 8	Aberdeen.
a Balmoral ..	55	13th	27	14th	46·3	32·4	39·4	+ 5·4	12	37	4	24	•	•	•	•	0	0·00	− 0·66	•	•	•	•	Balmoral.
p Crieff	52	13th	32	10, 14	46·0	34·3	40·2	+ 2·3	11	30	•	•	•	•	•	•	4	0·17	− 0·66	2·2	—	24	—	Balruddery.
a Leith .. .. S	53	11th	34	12, 13	46·9	36·7	41·8	+ 2·6	14	22	•	•	•	•	•	•	3	0·36	− 0·01	•	•	•	•	•
p West Linton .. S	50	11th	28	10th	45·1	32·9	39·0	+ 2·5	9	34	3	23	•	•	•	•	3	0·43	—	*1·9*	—	*21*	—	*West Linton.*
p Marchmont .. S	52	12, 13	29	14th	47·1	33·6	40·4	+ 3·4	14	33	4	26	37·9	+2·2	•	•	5	0·37	− 0·15	2·8	+ 0·5	30	+ 6	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	57	11, 12	31	14th	48·6	34·7	41·7	+ 3·6	18	31	3	27	38·8	+2·4	40·1	+1·7	3	0·24	− 0·24	4·7	—	51	—	Cockle Park.
a Shields	55	11th	33	15th	48·3	36·1	42·2	+ 3·3	26	17	•	•	•	•	•	•	3	0·21	− 0·14	•	•	•	•	*Newcastle.*
p Durham	53	13th	27	13th	48·7	35·9	41·3	+ 3·8	19	33	4	26	•	•	•	•	4	0·17	− 0·17	3·1	+ 0·8	33	+ 9	Durham.
a, North .. *p* Rounton	54	13th	29	14th	49·7	32·9	41·3	+ 4·0	22	37	6	24	39·1	•	•	•	5	0·23	− 0·15	•	•	•	•	Rounton.
a West Witton	*54*	*13th*	*30*	*14th*	*50·1*	*34·9*	*42·5*	—	*33*	*20*	4	26	39·6	•	39·6	•	*3*	*0·10*	—	•	•	•	•	*West Witton.*
p Scarborough	55	11th	33	13th	48·9	38·0	43·5	+ 4·3	27	11	•	•	•	•	41·5†	•	3	0·14	− 0·30	2·0	—	21	—	Scarborough.
p York	52	9, 14	30	13th	47·7	35·0	41·4	+ 2·9	16	29	•	•	40·6	+3·0	42·0	+1·9	6	0·17	− 0·22	1·1	− 0·9	12	− 9	York.
a Spurn Head	50	9th	33	13th	46·1	37·4	41·8	+ 2·9	11	19	4	22	40·4	+3·1	42·3	+1·5	3	0·22	− 0·08	*1·2*	—	*13*	—	*Hull.*
b South .. *a* Lincoln	55	9th	27	14th	45·9	33·3	39·6	+ 1·2	11	33	•	•	39·1	+2·8	41·1	+1·9	2	0·22	− 0·14	•	•	•	•	Lincoln.
a Fulbeck	55	9th	25	13, 14	45·6	32·1	38·9	+ 0·3	10	38	4	24	41·2	+2·7	43·0	+1·4	3	0·31	− 0·06	2·0	—	21	—	Rauceby.
											•	•	•	•	•	•	—	—	—	1·1	—	12	—	Skegness.
3. ENGLAND, E.											1	29	41·4	+3·0	42·9	+2·3	—	—	—	*1·1*	—	*12*	—	*Lowestoft.*
p Cromer	58	11th	33	13th	48·1	37·4	42·8	+ 5·5	25	13	•	•	•	•	•	•	6	0·12	—	1·8	—	19	—	Cromer.
p Little Massingham ..	54	9th	31	14th	46·3	36·0	41·2	+ 3·2	12	24	4	26	•	•	•	•	6	0·27	− 0·15	1·6	− 0·9	17	− 9	Lit. Massingham
a, North .. *a* Yarmouth	53	9th	34	14th	46·4	37·3	41·9	+ 4·0	12	20	•	•	41·7	+4·0	44·0	+2·9	2	0·14	− 0·20	1·0	—	10	—	Yarmouth.
a Norwich	55	9th	30	12th	47·6	35·4	41·5	+ 3·5	16	27	5	24	40·4	•	•	•	2	0·15	—	*1·7*	—	*18*	—	*Norwich.*
p Geldeston	58	11th	30	12th	48·4	35·9	42·2	+ 3·6	27	17	•	•	•	•	•	•	2	0·10	− 0·25	1·3	− 1·3	14	−14	Geldeston.
p Cambridge	56	9, 11	26	12th	47·9	33·0	40·5	+ 1·8	17	36	4	21	40·8	+2·4	43·7	+2·8	3	0·24	− 0·10	1·3	− 1·3	14	−14	Cambridge.
a Felixstowe	*50*	*9, 11*	*30*	*12th*	*45·9*	*35·4*	*40·7*	+ *2·0*	*11*	*26*	•	•	•	•	•	•	*3*	*0·11*	—	*1·3*	—	*14*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	48	11th	32	14, 15	44·6	36·3	40·5	+ 1·8	7	22	2	28	42·4	+3·1	44·8	+2·1	2	0·18	—	0·9	—	9	—	Clacton.
a Rothamsted	56	11th	28	12th	46·9	33·4	40·2	+ 2·2	14	34	•	•	•	•	•	•	6	0·24	− 0·20	1·7	− 0·7	18	− 7	Rothamsted.
a Shoeburyness	*51*	*11th*	*27*	*14th*	*45·6*	*34·0*	*39·8*	+ *0·6*	*10*	*31*	5	21	43·0	+3·8	•	•	*3*	*0·13*	− *0·15*	*0·5*	—	*5*	—	*Southend.*
p Tottenham	52	9, 10	29	12, 14	45·9	35·6	40·8	+ 1·4	11	25	3	24	•	•	44·9	+2·7	2	0·18	—	0·4	—	4	—	Tottenham.
4. MIDLAND COUNTIES.											3	24	39·6	+2·9	41·4	+1·8	—	—	—	*1·0*	—	*11*	—	*Huddersfield.*
a Harrogate	53	13th	26	13th	48·4	34·4	41·4	+ 4·1	18	31	3	24	39·8	+2·2	41·0	+2·0	4	0·14	− 0·39	2·3	—	25	—	Harrogate.
a Bawtry	54	9, 10	29	13th	46·1	33·7	39·9	+ 1·3	11	32	4	22	40·5	•	41·9	•	4	0·25	− 0·12	0·9	−1·1	9	−12	Worksop.
p Buxton	*57*	*11, 12*	*27*	*13, 14*	*50·6*	*31·7*	*41·2*	+ *5·4*	*24*	*42*	5	22	39·5	+3·0	42·4	+2·0	*3*	*0·66*	− *0·29*	*2·7*	—	*28*	—	*Buxton.*
a East .. *a* Nottingham	56	9th	29	13, 14, 15	46·9	33·4	40·2	+ 1·7	14	34	5	26	39·3	+2·5	41·1	+2·8	5	0·44	+ 0·04	0·5	—	5	—	Nottingham.
p Birmingham, Edgbsn.	57	11th	33	12th	50·4	37·1	43·8	+ 5·5	33	14	4	17	42·3	+3·0	44·4	+1·5	3	0·38	− 0·04	2·1	—	22	—	Birmingham.
a Raunds	56	9th	27	12th	48·9	32·4	40·7	+ 2·3	19	39	4	25	40·5	•	44·0	•	2	0·27	—	•	•	•	•	Raunds.
p Oxford	55	9th	28	14th	45·9	33·7	39·8	+ 0·4	11	32	4	24	•	•	•	•	4	0·27	− 0·13	1·8	− 0·5	19	− 6	Oxford.
											4	26	39·9	+2·9	41·9	+2·0	—	—	—	1·5	—	16	—	Sheffield.
a Cheadle	53	12th	30	10, 11	48·7	34·1	41·4	+ 4·0	19	32	4	24	•	•	•	•	2	0·39	− 0·11	•	•	•	•	Cheadle.
p Shrewsbury	57	11th	24	13th	49·4	34·1	41·8	+ 2·3	21	33	3	25	•	•	•	•	2	0·37	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	57	9th	23	14th	45·6	30·7	38·2	− 1·0	10	42	5	20	•	•	•	•	2	0·28	− 0·22	•	•	•	•	Hereford.
a Cirencester	53	9, 12	23	14th	47·6	30·3	39·0	+ 1·0	16	45	4	25	41·5	•	43·7	•	4	0·33	− 0·17	2·7	+ 0·2	28	+ 2	Cirencester.
a Bath	57	10th	28	14th	48·3	33·0	40·7	+ 0·5	18	36	•	•	43·0	+3·3	46·1	+3·2	3	0·21	− 0·30	2·5	—	26	—	Bath.
5. ENGLAND, S.E.											5	25	43·3	+4·5	45·6	+3·0	—	—	—	•	•	•	•	Canterbury
p Kew	52	10th	30	11, 14	45·1	34·7	39·9	+ 0·4	9	28	3	25	42·4	+4·3	45·0	+3·1	3	0·23	− 0·15	1·0	− 1·0	10	−10	Kew.
a Marlborough	54	12th	26	12, 14	47·6	31·9	39·8	+ 1·5	16	40	5	21	•	•	46·3	•	3	0·30	− 0·26	2·5	+ 0·4	26	+ 4	Marlborough.
a Margate	50	11th	32	12th	46·6	38·9	42·8	+ 3·1	19	9	2	26	44·6	+5·6	46·3	+5·3	1	0·04	− 0·32	0·8	− 1·7	8	−17	Margate.
a Wisley, Surrey ..	55	11th	30	11, 14	46·6	34·3	40·5	+ 0·7	13	31	4	20	41·8	+3·5	44·5	+3·3	2	0·21	—	1·3	—	13	—	Wisley
a Swarraton	53	10th	28	12, 14	45·7	32·1	38·9	+ 0·4	10	37	3	25	43·5	+4·2	46·1	+3·6	4	0·20	− 0·35	2·3	—	24	—	Worthing.
a Tunbridge Wells ..	54	11th	30	12, 14	45·9	34·9	40·4	+ 1·8	11	28	4	21	41·3	+3·9	•	•	2	0·08	− 0·48	1·7	− 0·6	18	− 7	Tunbridge Wells
a Dungeness	52	11th	31	12th	46·9	37·4	42·2	+ 2·6	21	13	•	•	•	•	•	•	1	0·03	− 0·35	0·9	—	9	—	Littlestone.
p Hastings..	54	11th	31	14th	47·7	39·0	43·4	+ 3·5	22	8	3	29	43·0	•	45·1	•	1	0·16	− 0·34	*1·2*	− *1·5*	*12*	−17	*Hastings.*
p Southampton	53	10th	30	12, 14	46·3	36·0	41·2	+ 0·1	12	24	4	24	•	•	•	•	2	0·13	− 0·39	1·8	− 0·8	19	− 9	Southampton
a Ventnor	54	11th	35	14th	47·9	39·3	43·6	+ 1·8	23	8	•	•	•	•	•	•	2	0·13	− 0·38	2·8	0·0	29	0	Ventnor.
											5	21	43·4	+3·3	46·8	+3·6	—	—	—	*2·4*	—	*25*	—	*Portsmouth.*
											•	•	43·9	•	46·1	•	—	—	—	1·3	− 1·3	14	−14	Eastbourne.
											•	•	43·1	•	44·9	•	—	—	—	*3·1*	—	*32*	—	*Bournemouth.*
LONDON.											2	27	•	•	44·8	•	—	—	—	*1·5*	− *1·2*	*16*	−12	*Brighton.*
a Westminster	*54*	*10th*	*30*	*14th*	*46·7*	*36·1*	*41·4*	+ *1·9*	*13*	*24*	2	27	•	•	•	•	*2*	*0·19*	− *0·20*	*0·3*	− *0·9*	*3*	− *9*	*Westminster.*
a Greenwich	*53*	*10, 11*	*30*	*12, 14*	*46·6*	*34·6*	*40·6*	+ *1·2*	*13*	*29*	4	23	•	•	•	•	*1*	*0·10*	− *0·27*	*0·8*	− *1·2*	*8*	−12	*Greenwich.*
a Hampstead	*54*	*11th*	*31*	*14th*	*44·4*	*36·1*	*40·3*	—	*7*	*23*	3	25	•	•	•	•	*3*	*0·34*	—	*0·9*	—	*9*	—	*Hampstead.*
a Camden Square ..	*52*	*9, 10, 11*	*30*	*14th*	*45·6*	*35·6*	*40·6*	—	*10*	*25*	3	25	•	•	•	•	*3*	*0·21*	—	*0·7*	—	*7*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	48	11th	35	10th	45·6	40·0	42·8	+ 4·0	14	6	•	•	•	•	•	•	4	0·22	− 0·67	•	•	•	•	•
p Glasgow	49	9th	34	10th	45·1	38·7	41·9	+ 3·3	9	14	2	28	•	•	•	•	2	0·41	− 0·26	0·5	− 1·0	5	−11	Glasgow.
p Rothesay .. S	49	9th	33	10, 15	45·9	37·3	41·6	+ 2·0	11	19	•	•	•	•	42·0	+0·2	3	0·39	− 0·49	•	•	•	•	•
a Kilmarnock ..	50	11th	34	10, 13, 15	46·3	37·0	41·7	+ 2·9	12	21	•	•	•	•	•	•	4	0·47	—	*1·7*	—	*18*	—	*Kilmarnock.*
a Colmonell ..	54	13th	30	15th	48·4	36·9	42·7	+ 4·3	26	14	3	26	•	•	•	•	2	0·17	− 0·72	•	•	•	•	•
p Dumfries ..	49	9th	34	10th	44·6	38·4	41·5	+ 2·7	7	14	1	29	40·7	•	41·0	•	4	0·35	− 0·41	*0·7*	—	*8*	—	*Dumfries.*
p Cally, Gatehouse	49	9th	32	15th	45·6	37·0	41·3	+ 2·8	10	20	•	•	•	•	•	•	2	0·30	− 0·70	•	•	•	•	•
b I. OF MAN																								
p Douglas	49	9th	37	15th	46·6	39·1	42·9	+ 2·6	18	8	0	32	•	•	•	•	3	0·57	− 0·23	0·5	− 1·9	5	−20	Douglas.
											3	22	39·7	+3·0	41·4	+1·6	—	—	—	*0·4*	—	*4*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											1	29	•	•	•	•	—	—	—	1·9	—	20	—	Hoylake.
p Aspatria	48	9, 10	33	14th	44·9	36·3	40·6	+ 2·9	8	22	2	29	41·8	•	42·9	•	3	0·59	+ 0·02	0·6	—	6	—	Aspatria.
p Newton Rigg	55	11th	30	13, 14	45·4	33·6	39·5	+ 2·9	10	32	7	22	40·3	+2·8	40·6	+1·4	2	0·09	− 0·64	2·0	− 0·1	21	− 1	Newton Rigg.
p Stonyhurst	50	10, 11	33	13th	45·7	37·7	41·7	+ 3·5	10	18	3	24	•	•	•	•	3	0·30	− 0·50	1·2	− 0·8	13	− 9	Stonyhurst.
p Blackpool	52	11th	30	13th	46·6	37·1	41·9	+ 2·9	13	21	5	27	42·3	•	43·8	•	2	0·24	− 0·31	1·0	− 1·2	11	−13	Blackpool.
p Manchester (Whit Pk.)	55	11th	34	12, 13	48·1	38·3	43·2	+ 3·6	24	10	3	28	•	•	•	•	2	0·32	− 0·12	*0·4*	− *0·8*	*4*	− *8*	*Whit. Park.*
a Liverpool (Bidston) ..	53	10th	30	13th	47·7	37·0	42·4	+ 3·1	24	14	•	•	•	•	•	•	2	0·22	− 0·21	*2·0*	—	*21*	—	*Liverpool.*
a Hawarden Bridge ..	58	11th	28	13, 14	48·9	34·7	41·8	+ 1·6	19	30	4	28	41·1	+4·1	41·5	+2·4	2	0·21	− 0·15	*1·2*	− *1·1*	*13*	−12	*Southport.*
											1	30	41·1	+3·7	43 0	+2·0	—	—	—	*0·1*	—	*1*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	52	10th	34	14, 15	45·6	39·0	42·3	+ 0·9	15	8	•	•	•	•	•	•	1	0·18	− 0·32	2·4	0·0	25	0	Llandudno.
a Holyhead	49	9, 10	38	13th	46·4	40 9	43·7	+ 2·3	17	3	•	•	•	•	•	•	3	0·44	− 0·14	3·7	—	39	—	Aberdovey.
p Bettws-y-Coed ..	51	13th	27	15th	49·1	33·4	41·3	+ 0·8	20	35	3	28	41·4	+2·3	43·7	+1·6	2	0·66	—	4·7	—	49	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·3	—	34	—	Aberystwyth.
a Llangammarch Wells	56	13th	19	14th	52·1	28·6	40·4	+ 2·4	28	54	5	16	40·9	+1·9	44·3	+1·6	2	0·39	—	3·9	—	41	—	Llangammarch
a Pembroke	52	9th	36	13th	47·9	40·7	44·3	+ 2·3	22	4	*	*	*	*	*	*	1	0·48	- 0·16	1·6	- 1·0	17	-11	Pembroke.[Wells
p Cardiff	52	9th	23	14th	44·9	32·4	38·7	- 1·1	8	36	4	23	42·0	+2·5	44·7	+2·7	3	0·20	- 0·53	*1·6*	—	*17*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	54	9, 10	29	14, 15	45·9	34·4	40·2	+ 0·1	11	30	2	30	*	*	*	*	2	0·19	- 0·38	*1·5*	—	*16*	—	*Clifton.*
a Shaftesbury	54	12th	27	14th	46·4	34·7	40·6	+ 2·2	12	29	*	*	42·7	*	44·3	*	3	0·13	- 0·44	*	*	*	*	Shaftesbury.
a Arlington	57	12th	25	14th	49·8	33·4	41·5	+ 2·2	21	35	*	*	*	*	*	*	1	0·08	- 0·85	*	*	*	*	Arlington.
a Newquay	*53*	*12th*	*35*	*12, 13, 14*	*48·1*	*39·7*	*43·9*	*+ 0·6*	*23*	*6*	*	*	46·5	*	*	*	*2*	*0·08*	*- 0·56*	3·8	+ 1·0	39	+11	*Newquay.*
a Cullompton	55	9, 10, 12	26	14th	49·9	32·6	41·3	+ 0·9	22	39	5	22	44·5	*	*	*	7	0·13	- 0·54	2·4	0·0	25	0	Cullompton.
a Portland	50	9, 10, 12	35	15th	47·9	40·1	44·0	+ 2·4	22	5	*	*	*	*	*	*	3	0·09	—	*3·0*	—	*31*	—	*Weymouth.*
p Plymouth	56	10th	30	14th	49·8	36·4	43·1	+ 1·0	31	16	4	20	44·4	+3·0	*	*	3	0·11	- 0·55	4·1	+ 2·4	42	+14	Plymouth.
p Falmouth	52	9th	36	14th	48·0	41·0	44·5	+ 1·4	22	3	*	*	*	*	*	*	1	0·03	- 0·84	2·8	- 0·1	28	- 1	Falmouth.
9. IRELAND, N.																								
a Malin Head	53	12th	36	10th	48·7	39·0	43·9	+ 3·1	26	8	*	*	*	*	*	*	3	0·14	- 0·40	*	*	*	*	
a, West .. *a* Blacksod Point ..	51	10, 11	41	10th	49·0	43·1	46·1	+ 3·5	29	0	*	*	*	*	*	*	3	0·45	- 0·44	*	*	*	*	
p Markree Castle ..	54	11th	32	14th	49·4	36·0	42·7	+ 2·7	30	17	3	28	43·2	*	44·1	*	2	0·17	- 0·59	1·6	- 0·6	17	- 6	Markree Castle.
a Birr Castle	56	11th	33	14th	50·3	38·4	44·4	+ 4·1	32	10	*	*	*	*	*	*	2	0·11	- 0·41	*2·2*	*- 0·1*	*23*	*- 1*	*Birr Castle.*
b, East .. *p* Armagh	52*	11th	33	13th	48·7	38·9	43·8	+ 4·0	26	9	0	31	42·4	+2·2	43·1	+0·5	2	0·11	- 0·41	1·4	- 0·8	15	- 8	Armagh.
a Donaghadee	51	11th	35	14, 15	47·6	39·0	43·3	+ 2·7	22	8	*	*	*	*	*	*	2	0·09	- 0·47	*	*	*	*	
											6	24	42·9	+1·7	44·7	+1·5	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											5	24	*	*	*	*	—	—	—	0·9	- 1·6	9	-17	Phœnix Park.
p Dublin, City	55	10th	32	14th	49·0	38·3	43·7	+ 1·5	27	10	1	30	*	*	*	*	1	0·09	- 0·41	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	53	10th	32	14th	48·7	38·7	43·7	+ 2·8	26	9	*	*	*	*	*	*	5	0·23	- 0·41	*	*	*	*	
a Waterford	51	10th	35	14th	48·0	39·9	44·0	+ 2·5	23	6	*	*	*	*	*	*	1	0·40	- 0·41	*	*	*	*	
a Birr Castle	56	11th	33	14th	50·3	38·4	44·4	+ 4·1	32	10	*	*	*	*	*	*	2	0·11	- 0·41	2·2	- 0·1	23	- 1	Birr Castle.
a Foynes	58	10th	34	13th	52·4	40·6	46·5	+ 4·0	37	4	*	*	*	*	*	*	2	0·03	- 0·72	*	*	*	*	
a, West .. *a* Cahir	53	11th	30	15th	49·3	37·3	43·3	+ 1·9	29	13	*	*	*	*	*	*	1	0·10	—	*	*	*	*	
a Killarney	58	11th	34	14th	54·0	42·4	48·2	+ 5·6	43	0	*	*	*	*	*	*	2	0·12	- 1·12	*	*	*	*	
a Valencia	54	11th	38	14th	50·6	44·1	47·4	+ 3·1	38	0	*	*	*	*	*	*	3	0·26	- 0·97	1·8	- 0·7	19	- 8	Valencia.
a Roche's Point ..	52	11th	35	10th	47·1	41·1	44·1	+ 0·7	18	3	*	*	*	*	*	*	3	0·37	- 0·54	0·6	*	6	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	53	10, 12	39	14, 15	50·0	43·0	46·5	+ 1·3	32	0	*	*	*	*	*	*	3	0·11	- 0·54	2·9	- 0·1	29	- 1	Scilly.
a Jersey, St. Aubins ..	60	11th	35	12th	51·7	39·6	45·7	+ 3·0	36	7	*	*	*	*	*	*	1	0·01	- 0·56	4·4	+ 1·2	45	+12	St. Heliers.
a Guernsey (Villa Carey)	56	11th	37	12th	50·9	41·3	46·1	+ 2·7	32	2	1	28	45·4	+3·1	47·2	+2·5	3	0·03	- 0·62	4·0	+ 1·0	40	+ 9	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·5 hrs. 26 %; Ramsgate, 0·9 hrs. 9 %; Rhyl, 1·8 hrs. 19 %; Salcombe, 3·3 hrs. 33 %; Tenby, 2·3 hrs. (-0·5) 24 % (- 5 %); Torquay, 3·5 hrs. (+0·8) 36 % (+8 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, February 15th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	43	43	43·0	+0·8	SCOTLAND, W. ..	Lamlash	45	43	44·1	+0·2
	Kirkwall	45	41	42·8	+1·9		Ballantrae	44	42	43·3	+0·5
	Wick	43	41	42·3	-1·2	ENGLAND, N.W. ..	Port Erin	47	44	46·3	+1·8
SCOTLAND, E. ..	Cromarty	42	40	41·2	+2·1		Newquay	48	48	48·0	+1·8
	Pennan Bay	44	40	41·6	+1·2	ENGLAND, S.W. ..	Scilly	52	48	49·8	—
	Aberdeen, Cove Bay	43	42	42·4	+2·2		Plymouth‡	49	48	48·4	+2·2
ENGLAND, N.E. ..	Burnmouth, Berwick	39	38	38·4	-0·8		Salcombe	50	47	48·2	+3·0
	Scarborough	47	42	45·1	+4·8	IRELAND, N.W. ..	Sheephaven	47	44	45·1	+0·5
ENGLAND, E. ..	Shipwash Lightship	47	44	45·5	+6·1		Teelin	52	45	45·9	+1·7
	Margate‡	45	45	45·1	+5·4	IRELAND, S.W. ..	Cleggan	47	44	45·6	+1·4
ENGLAND, S.E. ..	Eastbourne‡	46	44	45·0	+5·3		Seafield	54	49	51·5	+5·9
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

SEVENTH WEEK—February 9th to February 15th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	*	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	53	33	46·6	38·6	42·6	+ 5·2	18	+ 11	10	−31	6	+ 1	0·26	−0·87	1·7	−0·3	19	− 3
Eastern.																		
1. SCOTLAND, EAST ...	55	27	47·1	35·3	41·3	+ 4·6	14	+ 6	28	−18	3	− 1	0·19	−0·34	2·5	−0·2	28	− 1
2. ENGLAND, N.E.	57	25	47·7	34·8	41·3	+ 2·9	16	+ 6	30	− 5	4	+ 1	0·21	−0·14	2·3	−0·3	25	− 4
3. ENGLAND, EAST ...	58	26	46·9	35·6	41·3	+ 3·1	14	+ 3	26	−13	4	+ 1	0·18	−0·18	1·3	−1·5	13	−16
4. MIDLAND COUNTIES ...	57	23	47·8	33·4	40·6	+ 2·2	16	+ 3	34	− 5	3	0	0·30	−0·13	1·8	−0·6	19	− 6
5. ENGLAND, S.E.	55	26	46·6	35·9	41·3	+ 1·6	13	− 1	25	− 5	2	− 2	0·15	−0·32	1·6	−1·0	17	−10
Western.																		
6. SCOTLAND, WEST ...	54	30	46·0	38·1	42·1	+ 3·3	17	+ 8	11	−23	3	− 1	0·36	−0·58	0·5	−1·7	5	−18
7. ENGLAND, N.W.	58	27	46·8	36·8	41·8	+ 2·5	13	+ 2	22	− 8	2	− 2	0·33	−0·22	2·2	−0·2	23	− 2
8. ENGLAND, S.W.	57	19	48·2	35·4	41·9	+ 0·9	17	0	28	+ 4	3	0	0·18	−0·56	3·1	+0·5	32	+ 5
9. IRELAND, NORTH ...	56	32	49·0	39·1	44·0	+ 3·6	26	+ 11	8	−18	2	− 2	0·18	−0·47	1·5	−0·9	16	−10
10. IRELAND, SOUTH ...	58	30	49·9	40·1	45·0	+ 3·1	29	+ 8	5	−16	2	− 2	0·19	−0·59	1·4	−1·3	14	−13
11. ENGLISH CHANNEL ...	60	35	50·9	41·3	46·1	+ 2·2	32	+ 8	2	− 9	2	− 3	0·05	−0·59	3·8	+0·5	38	+ 5

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 11 Weeks, December 1st, 1912, to February 15th, 1913.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	96	+ 15	268	−111	61	+ 3	17·82	+3·41	0·6	−0·3	8	− 5
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	90	+ 7	394	− 55	51	+ 6	7·95	+1·33	0·9	−0·3	13	− 7
2. ENGLAND, N.E.	58	18	*	*	*	*	161	+ 65	264	− 95	47	+ 8	5·52	+0·79	1·0	−0·6	13	− 7
3. ENGLAND, EAST ...	59	20	*	*	*	*	199	+ 95	189	−219	49	+ 7	5·80	+1·37	1·1	−0·7	14	− 8
4. MIDLAND COUNTIES ...	59	13	*	*	*	*	207	+ 88	246	−163	49	+ 8	7·77	+2·29	1·0	−0·5	12	− 7
5. ENGLAND, S.E.	59	22	*	*	*	*	264	+112	122	−179	46	+ 4	8·07	+2·20	1·3	−0·4	16	− 5
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	162	+ 43	204	− 92	58	+ 7	14·36	+2·32	0·6	−0·7	8	− 9
7. ENGLAND, N.W.	60	8	*	*	*	*	199	+ 78	180	−111	54	+ 8	9·90	+2·29	0·9	−0·4	12	− 5
8. ENGLAND, S.W.	57	19	*	*	*	*	279	+ 82	108	−113	61	+14	14·19	+4·50	1·2	−0·5	15	− 6
9. IRELAND, NORTH ...	58	20	*	*	*	*	242	+ 91	156	− 98	63	+10	11·95	+3·27	1·0	−0·5	13	− 6
10. IRELAND, SOUTH ...	58	20	*	*	*	*	310	+ 75	122	− 70	67	+17	13·65	+3·48	1·2	−0·6	15	− 7
11. ENGLISH CHANNEL ...	60	35	*	*	*	*	425	+123	11	− 68	61	+ 8	10·45	+2·25	1·6	−0·6	19	− 7

THE YEAR.—Aggregates, &c., for the Period of 7 Weeks, December 29th, 1912, to February 15th, 1913.

0. SCOTLAND, NORTH ...	54	22	*	*	*	*	56	+ 9	168	− 89	36	− 1	8·61	− 0·50	0·8	−0·3	10	− 5
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	45	− 8	268	− 25	31	+ 3	4·49	+ 0·51	1·1	−0·6	14	− 9
2. ENGLAND, N.E.	57	18	*	*	*	*	73	+ 12	191	− 43	30	+ 5	3·64	+ 0·93	1·2	−0·6	14	− 7
3 ENGLAND, EAST ...	58	20	*	*	*	*	93	+ 28	144	−121	29	+ 3	3·35	+ 0·66	1·4	−0·6	17	− 7
4. MIDLAND COUNTIES ...	57	13	*	*	*	*	98	+ 21	183	− 79	30	+ 4	4·60	+ 1·24	1·1	−0·6	13	− 7
5. ENGLAND, S.E.	55	22	*	*	*	*	125	+ 36	99	−101	27	+ 1	4·79	+ 1·23	1·5	−0·4	18	− 4
Western.																		
6. SCOTLAND, WEST ...	54	17	*	*	*	*	79	+ 8	144	− 56	33	+ 1	8·40	+ 1·20	0·7	−0·8	9	− 9
7. ENGLAND, N.W.	58	10	*	*	*	*	92	+ 20	137	− 55	31	+ 2	5·71	+ 1·11	1·1	−0·4	14	− 4
8. ENGLAND, S.W.	57	19	*	*	*	*	139	+ 22	95	− 56	38	+ 9	8·12	+ 2·50	1·5	−0·4	17	− 5
9. IRELAND, NORTH ...	57	21	*	*	*	*	124	+ 28	120	− 47	38	+ 5	6·80	+ 1·55	1·2	−0·5	14	− 6
10. IRELAND, SOUTH ...	58	22	*	*	*	*	167	+ 23	100	− 26	39	+ 8	8·74	+ 2·69	1·3	−0·6	16	− 7
11. ENGLISH CHANNEL ...	60	35	*	*	*	*	234	+ 61	11	− 49	36	+ 3	6·47	+ 1·77	1·9	−0·5	22	− 5

M.O., February 19, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) No. 8. EIGHTH WEEK, SUNDAY, FEBRUARY 16TH, TO SATURDAY, FEBRUARY 22ND, 1913. Price 6d. Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The general condition was fair to bright and rainless, and the air was unusually dry. Slight rain, sleet or snow was, however, experienced at times in some localities, mostly in the north and north-east, and there was a good deal of cloud in Ireland and Scotland.

Temperature was below the average, the least divergence being 0°·3 in Scotland North, and the greatest 4°·5 in Ireland South and the English Channel, and 5°·2 in England South-West. The highest of the maxima occurred very commonly on the 16th, and ranged from 50° in Ireland South to 46° in England North-East, South-East and South-West. The lowest of the minima, which were recorded in the latter half of the week, varied from 23° in Scotland East and England North-West and South-West to 27° in England South-East and to 32° in the English Channel. The lowest grass minima were 15° at Rauceby and Llangammarch Wells, 16° at West Linton, Blackpool and Little Massingham, and 17° at Durham. In all parts of the Kingdom the temperature of the soil at a depth of 4 feet continued above the normal, but at nearly all stations it was rather below it at a depth of 1 foot.

Mean Temperature of the Sea was above the average on most parts of the coast, but the water was colder in most places than during the corresponding period of last year. The means for the week ranged from 48° at Seafield and nearly 47° at some stations on the south-west coast of England to a little below 41° at Cromarty, and to a trifle below 38° at Burnmouth.

Rainfall. Over the north of Ireland, the west of Scotland, and the south-west of England there was no rain, and in all other parts of these Islands except the north and east of Scotland and the north-east of England there was less than 0·05 in. The largest total amount was only 0·1 in. and occurred in Scotland North.

Bright Sunshine exceeded the average in all parts of England, but was a little below it in Ireland and Scotland North and East, and only equal to it in Scotland West. The mean daily duration was more than 4 hours in England East and the English Channel, and more than 4½ hours in England South-East and South-West. The percentage of the possible duration ranged from 48 in England South-West, 46 in England South-East and 44 in the English Channel, to 23 in Scotland East and West and Ireland North, and 20 in Scotland North.

Barometer and Wind. The pressure distribution was mainly anticyclonic. During the greater part of the period the highest pressure was situated over or beyond Scotland, and the wind movement across these Islands was consequently Easterly. Owing to the relatively low pressure over France and the Bay region this current became fresh to high for a time, and on a few points of the coast reached the force of a gale. By the end of the week, however, when the anticyclonic centre lay over England or the North Sea, the wind had veered to the South-Eastward in the west of these Islands and to the Southward in Scotland.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 31,		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland N.	10. Ireland, S.	11. English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Moderate	Moderate	Deficient	Moderate	Deficient	Deficient
	Rainfall ...	Light	Light	Very light	Light	Light	Light	Nought	Very light	Nought	Nought	Nought	Very light
	Sunshine ...	Moderate	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Abundant	Very abundant	Moderate	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 12 weeks from Dec. 1st, 1912.	Warmth ...	4 * 3	4 * 3	6 * 2	5 * 1	6 * 2	7 * 1	7 * 3	6 * 1	6 * 2	8 * 1	7 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 2	5 * 2	5 * 2	5 * 2	5 * 3	5 * 2	7 * 3	6 * 2	5 * 2	5 * 3
	Sunshine ...	1 * 5	0 * 6	1 * 7	2 * 7	2 * 8	3 * 6	0 * 8	2 * 3	1 * 7	0 * 7	0 * 7	1 * 8

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(28761—24.) Wt. 173—804. 450. 2/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°		°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands.. *p* Baltasound .. S	44	16th	29	21, 22	41·4	34·4	37·9	—	0	29	*	*	38·5	*	*	*	7	0·59	—	1·9	—	20	—	Baltasound.
a Lerwick	44	16, 20, 22	30	21, 22	43·1	35·3	39·2	+ 1·0	3	24	*	*	*	*	*	*	5	0·19	—	1·9	- 0·3	20	- 3	Deerness.
a Stornoway	48	18th	29	20th	45·0	33·9	39·5	+ 0·4	8	31	*	*	*	*	*	*	2	0·06	- 0·95	3·0	+ 0·6	31	+ 7	Stornoway.
a Castlebay, Barra Isd.	47	16th	36	21st	44·4	39·0	41·7	+ 0·2	7	12	*	*	*	*	*	*	0	0·00	—	1·9	—	20	—	Castlebay.
a Wick	45	16th	31	20th	41·9	34·6	38·3	+ 0·5	0	26	*	*	*	*	*	*	2	0·12	- 0·41	*	*	*	*	
b, Main- *p* Strathpeffer ..	47	16th	28	20th	43·7	32·9	38·3	+ 0·8	5	33	*	*	*	*	*	*	3	0·14	- 0·50	1·8	- 0·6	19	- 6	Strathpeffer.
land. *p* Glencarron ..	43	16, 20	25	20th	41·7	31·3	36·5	- 0·3	0	39	*	*	*	*	*	*	1	0·05	- 1·72	*	*	*	*	
p Fort Augustus..	46	16th	26	18th	41·6	30·0	35·8	- 2·4	0	43	*	*	*	*	*	*	3	0·10	- 0·89	0·9	- 1·0	9	- 8	Fort Augustus.
p Fort William ..	44	17th	26	21st	41·1	30·7	35·9	- 3·3	0	43	*	*	*	*	*	*	1	0·06	- 1·68	*	*	*	*	
1. SCOTLAND, E.																								
p Gordon Castle.. S	47	22nd	29	19, 20	44·4	32·6	38·5	- 0·2	7	35	5	20	37·0	+1·0	38·2	+0·9	—	—	—	2·7	—	28	—	Crathes S.
a Nairn	46	16th	24	18th	42·3	28·6	35·5	- 2·5	1	47	*	*	*	*	*	*	1	0·03	- 0·49	2·7	—	28	—	Gordon Castle.
a Aberdeen ..	46	22nd	31	20th	43·1	35·3	39·2	+ 0·9	3	24	*	*	*	*	*	*	5	0·13	- 0·32	2·4	—	25	—	Nairn.
a Balmoral	46	16, 18	24	20th	42·9	28·3	35·6	+ 1·3	3	49	6	21	*	*	*	*	3	0·09	- 0·44	2·3	- 0·5	24	- 5	Aberdeen.
p Crieff	44	20th	28	20th	40·7	31·1	35·9	- 2·4	0	43	*	*	*	*	*	*	4	0·10	- 0·55	*	*	*	*	Balmoral.
a Leith	44	22nd	27	17th	41·6	32·9	37·3	- 2·3	0	33	*	*	*	*	*	*	3	0·10	- 0·69	2·5	*	26	*	Balruddery.
p West Linton ..	41	22nd	23	22nd	37·9	26·4	32·2	- 4·6	0	69	6	16	*	*	*	*	2	0·02	- 0·35	*	*	*	*	
p Marchmont .. S	45	22nd	30	17, 19, 22	40·0	31·6	35·8	- 1·6	0	43	6	26	36·3	-0·1	*	*	2	0·05	—	1·6	—	16	—	West Linton.
																	2	0·20	- 0·32	1·2	- 1·3	12	-14	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	45	22nd	27	22nd	41·9	32·3	37·1	- 1·4	0	34	4	20	36·6	- 0·2	40·2	+1·4	2	0·10	- 0·40	2·5	—	25	—	Cockle Park.
a Shields	44	16th	29	22nd	42·6	34·3	38·5	- 0·7	2	28	*	*	*	*	*	*	2	0·05	- 0·29	*	*	*	*	
p Durham	43	16, 22	25	22nd	40·7	31·4	36·1	- 1·9	0	41	5	17	*	*	*	*	1	0·01	- 0·33	2·0	- 0·6	20	- 6	Durham.
a, North .. *p* Rounton	44	16th	25	22nd	41·4	30·1	35·8	- 2·2	0	43	6	18	37·4	*	*	*	2	0·04	- 0·34	*	*	*	*	Rounton.
a West Witton	43	22nd	24	22nd	39·7	30·9	35·3	—	0	47	5	21	37·4	*	39·9	*	1	0·02	—	*	*	*	*	*West Witton.*
p Scarborough	45	21st	34	20th	42·1	36·1	39·1	- 0·2	0	21	*	*	*	*	42·0†	*	3	0·07	- 0·37	2·8	—	28	—	Scarborough.
p York	45	16th	29	22nd	41·9	32·6	37·3	- 1·7	0	33	*	*	38·7	+0·5	41·9	+1·7	1	0·01	- 0·38	2·9	+ 0·6	29	+ 6	York.
a Spurn Head	44	16th	32	18th	41·3	35·0	38·2	- 1·0	0	27	6	18	37·0	-1·0	43·0	+2·3	2	0·06	- 0·24	1·1	—	11	—	*Hull.*
b South .. *a* Lincoln	46	16, 21	29	19, 22	42·3	31·7	37·0	- 1·9	1	36	*	*	36·0	-0·9	41·1	+1·7	1	0·02	- 0·35	*	*	*	*	Lincoln.
a Fulbeck	44	16, 21	27	22nd	40·3	30·7	35·5	- 3·8	0	46	7	15	38·5	-0·4	42·9	+1·2	3	0·09	- 0·28	3·3	—	33	—	Rauceby.
											*	*	*	*	*	*	—	—	—	4·0	—	40	—	Skegness.
3. ENGLAND, E.											2	30	38·5	- 0·2	42·5	+1·8	—	—	—	4·5	—	45	—	*Lowestoft.*
p Cromer	44	16, 21	32	16, 19, 20	41·0	33·1	37·1	- 0·6	0	34	*	*	*	*	*	*	0	0·00	—	4·4	—	44	—	Cromer.
p Little Massingham ..	45	16th	26	19th	40·4	30·3	35·4	- 3·3	0	46	7	16	*	*	*	*	2	0·05	- 0·36	4·1	+ 2·3	41	+13	Lit. Massingham
a, North .. *a* Yarmouth	44	16th	33	19, 20, 21	40·7	35·1	37·9	- 0·5	0	29	*	*	38·4	+0·3	44·0	+2·6	1	0·03	- 0·31	4·4	—	44	—	Yarmouth.
a Norwich	46	16th	30	19th	41·3	32·6	37·0	- 1·5	0	35	7	23	37·5	*	*	*	2	0·03	—	3·9	—	39	—	*Norwich.*
p Geldeston	46	16th	31	16th	40·9	33·1	37·0	- 2·2	0	35	*	*	*	*	*	*	0	0·00	- 0·34	4·3	+ 1·4	43	+14	Geldeston.
p Cambridge	48	16th	27	22nd	42·1	31·4	36·8	- 2·4	0	38	7	20	38·4	-0·3	43·0	+1·8	1	0·02	- 0·31	4·3	+ 1·4	43	+14	Cambridge.
a Felixstowe	45	16th	33	19, 20, 21	40·4	34·1	37·3	- 1·9	0	33	*	*	*	*	*	*	3	0·07	—	5·4	—	54	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	45	16th	33	19, 20	40·4	34·7	37·6	- 1·5	0	31	5	26	40·0	0·0	44·4	+1·6	2	0·03	—	5·0	—	50	—	Clacton.
a Rothamsted	46	16th	27	19th	40·9	30·7	35·8	- 2·7	0	43	*	*	*	*	*	*	3	0·03	- 0·41	4·1	+ 1·4	41	+14	Rothamsted.
a Shoeburyness	45	16th	31	21st	40·7	33·4	37·1	- 2·6	0	34	7	23	39·1	-0·9	*	*	2	0·11	- 0·17	4·5	—	45	—	*Southend.*
p Tottenham	47	16th	29	19th	43·1	32·9	38·0	- 1·9	3	33	7	24	*	*	44·2	+1·8	0	0·00	—	3·9	—	39	—	Tottenham.
4. MIDLAND COUNTIES.											5	25	37·0	-0·5	41·4	+1·8	—	—	—	2·7	—	27	—	*Huddersfield.*
a Harrogate	42	16, 21	27	19, 22	39·0	30·6	34·8	- 2·9	0	50	7	20	37·8	-0·2	40·5	+1·2	2	0·09	- 0·42	2·1	—	21	—	Harrogate.
a Bawtry	47	21st	26	19th	43·3	29·1	36·2	- 2·9	4	46	6	19	37·8	*	41·4	*	1	0·02	- 0·35	3·4	+ 1·1	34	+11	Worksop.
p Buxton	41	16, 21	26	22nd	38·0	29·6	33·8	- 2·4	0	57	7	19	37·1	+0·1	42·1	+1·8	1	0·01	- 0·92	3·3	—	33	—	*Buxton.*
a East .. *a* Nottingham	45	16, 21	26	22nd	41·0	31·1	36·1	- 2·9	0	41	5	26	36·1	-1·4	40·3	+1·6	2	0·02	- 0·37	3·2	—	32	—	Nottingham.
p Birmingham, Edgbsn.	43	16th	27	19th	39·0	31·3	35·2	- 3·6	0	48	7	19	38·6	-1·2	44·2	+1·2	1	0·03	- 0·38	2·7	—	27	—	Birmingham.
a Raunds	46	16th	27	19th	40·9	30·3	35·6	- 3·3	0	45	7	23	38·4	*	43·8	*	1	0·03	—	*	*	*	*	Raunds.
p Oxford	47	16th	28	19th	40·9	31·0	36·0	- 3·8	0	42	7	22	*	*	*	*	1	0·01	- 0·38	3·4	+ 0·8	34	+ 8	Oxford.
											7	24	37·0	-0·5	41·6	+1·6	—	—	—	2·9	—	29	—	Sheffield.
a Cheadle	44	21st	27	22nd	40·1	30·7	35·4	- 2·5	0	46	7	22	*	*	*	*	0	0·00	- 0·50	*	*	*	*	Cheadle.
b, West .. *p* Shrewsbury	44	16, 19, 21	29	17th	42·7	31·3	37·0	- 3·0	2	38	6	23	*	*	*	*	0	0·00	—	*	*	*	*	Shrewsbury.
a Hereford	45	16th	26	22nd	40·0	30·4	35·2	- 4·6	0	48	5	21	*	*	*	*	1	0·01	- 0·46	*	*	*	*	Hereford.
a Cirencester	44	16th	26	19th	38·9	29·1	34·0	- 4·5	0	56	6	25	38·5	*	43·0	*	0	0·00	- 0·60	3·4	+ 0·6	34	+ 6	Cirencester.
a Bath	47	16th	29	19, 22	42·3	31·3	36·8	- 3·6	1	38	*	*	39·5	-0·9	45·6	+2·5	0	0·00	—	4·2	—	42	—	Bath.
5. ENGLAND, S.E.											6	20	39·3	-0·3	45·5	+2·9	—	—	—	*	*	*	*	Canterbury
p Kew	44	16th	30	19th	40·3	33·0	36·7	- 3·3	0	37	6	21	38·6	-0·6	44·7	+2·5	1	0·02	- 0·36	1·8	- 0·4	18	- 4	Kew.
a Marlborough	45	16th	28	19th	39·1	29·7	34·4	- 4·5	0	53	7	19	*	*	46·1	*	1	0·02	- 0·54	3·4	+ 1·1	34	+11	Marlborough.
a Margate	45	16th	31	19th	40·9	34·9	37·9	- 2·1	0	29	1	30	42·0	+2·3	46·1	+4·9	1	0·02	- 0·34	4·8	+ 2·0	48	+20	Margate.
a Wisley, Surrey ..	45	16th	29	16th	40·7	30·9	35·8	- 4·6	0	43	7	20	38·1	-1·1	43·5	+1·9	1	0·04	—	2·5	—	25	—	Wisley
a Swarraton	44	16th	28	19th	39·9	30·0	35·0	- 4·0	0	49	7	25	39·0	-1·3	45·5	+2·8	1	0·06	- 0·48	6·9	—	68	—	Worthing.
a Tunbridge Wells ..	45	16th	27	19th	39·4	29·9	34·7	- 4·3	0	51	7	21	38·0	-0·4	*	*	2	0·08	- 0·45	5·2	+ 2·5	52	+25	Tunbridge Wells
a Dungeness	45	16th	30	19, 20	40·9	34·1	37·5	- 2·5	0	32	*	*	*	*	*	*	1	0·02	- 0·35	5·4	—	54	—	Littlestone.
p Hastings..	45	16th	30	19th	40·3	32·3	36·3	- 4·0	0	40	6	26	38·4	*	44·6	*	1	0·06	- 0·44	6·5	+ 3·3	64	+33	*Hastings.*
p Southampton	46	16, 21	29	19, 22	42·1	31·3	36·7	- 5·0	0	38	6	22	*	*	*	*	1	0·02	- 0·49	5·4	+ 2·5	54	+25	Southampton
a Ventnor	45	16, 21	31	19th	41·9	34·1	38·0	- 4·0	0	28	6	*	*	*	*	*	1	0·01	- 0·49	4·9	+ 1·7	49	+17	Ventnor.
											6	24	39·6	-1·4	45·6	+2·0	—	—	—	6·2	—	61	—	*Portsmouth.*
											*	*	40·4	*	45·6	*	—	—	—	5·8	+ 2·8	57	+28	Eastbourne.
LONDON.											*	*	38·8	*	45·4	*	—	—	—	5·7	—	56	—	*Bournemouth.*
a Westminster	47	16th	31	19th	42·3	33·7	38·0	- 2·0	1	29	6	24	*	*	43·5	*	—	—	—	6·1	+ 3·1	60	+31	*Brighton.*
a Greenwich	46	16th	29	19th	41·4	31·7	36·6	- 3·6	0	38	6	25	*	*	*	*	2	0·02	- 0·37	2·3	+ 0·9	23	+ 9	*Westminster.*
a Hampstead	44	16th	27	19th	39·4	30·7	35·1	—	0	48	7	18	*	*	*	*	2	0·04	- 0·34	3·7	+ 1·5	37	+15	*Greenwich.*
a Camden Square ..	46	16th	28	19th	42·4	31·1	36·8	—	1	39	7	23	*	*	*	*	1	0·01	—	3·6	—	36	—	*Hampstead.*
											7	24	*	*	*	*	2	0·02	—	3·4	—	35	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	45	17th	26	19, 21	42·6	30·4	36·5	- 2·5	2	41	*	*	*	*	*	*	0	0·00	- 0·87	*	*	*	*	
p Glasgow	43	16th	31	21st	41·1	34·3	37·7	- 1·3	0	30	3	22	*	*	*	*	0	0·00	- 0·65	1·0	- 0·7	10	- 8	Glasgow.
p Rothesay	44	16, 21	28	21st	42·4	34·0	38·2	- 1·7	1	28	*	*	*	*	42·4	+0·4	0	0·00	- 0·85	*	*	*	*	
a Kilmarnock	44	16, 21	26	21st	42·1	30·9	36·5	- 2·5	0	39	*	*	*	*	*	*	0	0·00	—	2·4	—	24	—	*Kilmarnock.*
a Colmonell	47	17th	25	17, 21	43·9	27·9	35·9	- 2·8	5	51	6	18	*	*	*	*	0	0·00	- 0·87	*	*	*	*	
p Dumfries	45	21st	28	22nd	42·1	31·0	36·6	- 2·6	0	39	5	23	38·9	*	41·3	*	0	0·00	- 0·73	2·0	—	20	—	*Dumfries.*
p Cally, Gatehouse S	46	21st	28	21st	43·7	30·9	37·3	- 1·5	5	40	*	*	*	*	*	*	0	0·00	- 0·99	*	*	*	*	
b I. OF MAN																								
p Douglas	44	17, 21	34	19th	42·3	36·1	39 2	- 1·2	1	21	1	28	*	*	*	*	0	0·00	- 0·78	3·5	+ 0·7	35	+ 7	Douglas.
7. *a*, ENGLAND, N.W.											6	20	37·0	-0·3	41·3	+1·5	—	—	—	4·5	—	45	—	*Burnley.*
											4	26	*	*	*	*	—	—	—	2·2	—	22	—	Hoylake.
p Aspatria	44	16, 21	26	19th	41·9	29·3	35·6	- 2·4	0	45	6	18	39·3	*	43·1	*	0	0·00	- 0·57	4·0	—	41	—	Aspatria.
p Newton Rigg	44	17th	25	22nd	41·4	29·4	35·4	- 1·6	0	46	7	18	38·5	+0·3	40·8	+1·4	0	0·00	- 0·70	3·9	+ 1·5	39	+15	Newton Rigg.
p Stonyhurst	44	21st	30	19th	40·6	33·3	37·0	- 1·6	0	35	7	22	*	*	*	*	0	0·00	- 0·80	4·1	+ 1·8	41	+18	Stonyhurst.
p Blackpool	46	21st	27	19th	42·9	31·7	37·3	- 2·0	3	37	7	16	39·9	*	43·9	*	0	0·00	- 0·53	4·6	+ 2·1	46	+21	Blackpool.
p Manchester (Whit Pk.)	45	21, 22	30	22nd	41·6	34·4	38·0	- 2·0	0	28	7	20	*	*	*	*	0	0·00	- 0·42	3·3	+ 1·9	33	+19	*Whit. Park.*
a Liverpool (Bidston) ..	43	16, 21	29	19th	40·6	32·7	36·7	- 3·0	0	37	*	*	*	*	*	*	0	0·00	- 0·43	2·5	—	25	—	*Liverpool.*
a Hawarden Bridge ..	48	17th	30	18th	43·4	33·4	38·4	- 2·1	4	31	5	18	36·7	-1·4	41·3	+1·7	0	0·00	- 0·36	3·7	+ 1·1	37	+11	*Southport.*
											2	28	37·2	-1·0	43 1	+2·0	—	—	—	3·6	—	36	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	45	22nd	34	22nd	42·0	36·4	39·2	- 2·4	0	20	*	*	*	*	*	*	0	0·00	- 0·48	3·3	—	33	—	Llandudno.
a Holyhead	45	17–20	31	22nd	43·6	35·6	39·6	- 2·0	4	24	*	*	*	*	*	*	0	0·00	- 0·58	5·1	—	51	—	Aberdovey.
p Bettws-y-Coed ..	44	22nd	23	22nd	41·7	29·7	35·7	- 5·3	0	44	6	25	37·4	-2·4	43·3	+0·9	1	0·06	—	3·8	+ 1·1	38	+11	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				5·6	—	55	—	Aberystwyth.
a Llangammarch Wells	46	16th	23	22nd	40·4	29·1	34·8	- 3·7	0	50	6	15	37·4	-2·3	44·1	+1·4	0	0·00	—	3·6	—	36	—	Llangammarch
a Pembroke	45	16th	27	20, 21	41·7	30·6	36·2	- 5·8	0	41	*	*	*	*	*	*	0	0·00	- 0·61	4·8	+ 1·8	48	+18	Pembroke.[Wells
p Cardiff	44	16th	29	19th	40·0	31·1	35·6	- 4·7	0	45	7	25	38·1	-2·1	44·0	+1·7	0	0·00	- 0·71	*4·3*	—	*43*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	48	16th	29	19th	41·0	31·4	36·2	- 4·3	0	41	6	26	*	*	*	*	1	0·01	- 0·55	*3·7*	—	*37*	—	*Clifton.*
a Shaftesbury	43	16th	25	19th	37·9	27·7	32·8	- 6·1	0	64	*	*	37·7	*	43·9	*	0	0·00	- 0·57	*	*	*	*	Shaftesbury.
a Arlington	43	16th	28	19th	39·0	30·1	34·6	- 5·1	0	52	*	*	*	*	*	*	0	0·00	- 0·92	*	*	*	*	Arlington.
a Newquay	*45*	*16, 22*	*27*	*21st*	*40·9*	*30·1*	*35·5*	*- 7·8*	*0*	*46*	*	*	41·8	*	*	*	*0*	*0·00*	*- 0·62*	6·1	+ 3·0	60	+30	Newquay.
a Cullompton	46	16th	26	22nd	40·7	30·6	35·7	- 5·2	0	44	7	19	40·8	*	*	*	0	0·00	- 0·65	4·3	+ 1·6	43	+16	Cullompton.
a Portland	45	16th	32	19, 20, 21	41·6	33·7	37·7	- 4·1	0	30	*	*	*	*	*	*	0	0·00	—	*4·5*	—	*45*	—	*Weymouth.*
p Plymouth	46	16, 22	30	20th	41·8	33·1	37·5	- 4·9	0	32	6	25	39·4	-2·9	*	*	0	0·00	- 0·64	4·6	+ 1·6	45	+16	Plymouth.
p Falmouth	44	16, 22	31	20, 21	40·3	33·7	37·0	- 6·3	0	35	*	*	*	*	*	*	0	0·00	- 0·83	5·0	+ 1·7	49	+16	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	45	16th	34	21st	42·3	36·3	39·3	- 1·7	1	20	*	*	*	*	*	*	0	0·00	- 0·53	*	*	*	*	* *
a Blacksod Point ..	47	16th	33	18th	42·4	36·6	39·5	- 3·2	1	19	*	*	*	*	*	*	0	0·00	- 0·87	*	*	*	*	* *
p Markree Castle ..	47	17th	26	19th	43·1	29·4	36·3	- 4·1	3	45	6	22	40·9	*	44·1	*	0	0·00	- 0·75	2·4	0·0	24	0	Markree Castle.
a Birr Castle	46	22nd	26	20th	41·9	31·1	36·5	- 4·2	0	39	*	*	*	*	*	*	0	0·00	- 0·52	2·7	+ *0·2*	*27*	+ *2*	*Birr Castle.*
b, East .. *p* Armagh	44	17th	30	19th	41·3	33·4	37·4	- 2·7	0	32	4	22	40·9	-0·7	43·5	+1·0	0	0·00	- 0·51	2·2	- 0·2	22	- 2	Armagh.
a Donaghadee	44	21, 22	34	16th	42·3	37·1	39·7	- 1·3	1	17	*	*	*	*	*	*	0	0·00	- 0·55	*	*	*	*	* *
											3	22	40·7	-1·1	44·3	+0·7	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											3	20	*	*	*	*	—	—	—	2·6	- 0·2	26	- 2	Phœnix Park.
a, East .. *p* Dublin, City	45	16, 17	34	16th	43·1	36·9	40·0	- 2·5	3	19	0	33	*	*	*	*	0	0·00	- 0·49	*	*	*	*	Dublin City.
a Kilkenny	45	17th	28	21st	41·7	30·9	36·3	- 4·8	0	40	*	*	*	*	*	*	1	0·01	- 0·60	*	*	*	*	* *
a Waterford	46	16th	30	19th	42·9	34·0	38·5	- 3·3	3	29	*	*	*	*	*	*	0	0·00	- 0·76	*	*	*	*	* *
b, West .. *a* Birr Castle	46	22nd	26	20th	41·9	31·1	36·5	- 4·2	0	39	*	*	*	*	*	*	0	0·00	- 0·52	2·7	+ 0·2	27	+ 2	Birr Castle.
a Foynes	47	22nd	30	17, 20	41·1	32·6	36·9	- 5·9	0	36	*	*	*	*	*	*	0	0·00	- 0·73	*	*	*	*	* *
a Cahir	46	22nd	28	19th	41·3	31·7	36·5	- 5·2	0	39	*	*	*	*	*	*	0	0·00	—	*	*	*	*	* *
a Killarney	49	17th	26	19th	42·6	31·1	36·9	- 5·9	2	39	*	*	*	*	*	*	0	0·00	- 1·20	*	*	*	*	* *
a Valencia	50	17th	31	19, 20	44·1	33·3	38·7	- 5·7	6	32	*	*	*	*	*	*	0	0·00	- 1·18	3·5	+ 0·7	35	+ 7	Valencia.
a Roche's Point	46	22nd	31	19th	41·9	34·9	38·4	- 5·1	0	25	*	*	*	*	*	*	2	0·02	- 0·81	1·9	*	19	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	47	16, 22	32	19th	42·3	35·0	38·7	- 6·5	1	25	*	*	*	*	*	*	0	0·00	- 0·63	3·4	+ 0·1	33	+ 1	Scilly.
a Jersey, St. Aubins ..	46	16th	32	19th	42·7	35·3	39·0	- 4·1	2	24	*	*	*	*	*	*	2	0·05	- 0·49	5·5	+ 2·0	53	+19	St. Heliers.
a Guernsey (Villa Carey)	48	16, 22	32	18th	44·1	37·3	40·7	- 3·1	6	18	1	30	42·1	-1·0	46·7	+1·9	2	0·06	- 0·57	4·6	+ 1·2	45	+11	Guernsey.*

Additional Sunshine Means:—*Bognor, 7·2 hrs. 71 °/₀; Ramsgate, 5·2 hrs. 52 °/₀; Rhyl, 3·4 hrs. 34 °/₀; Salcombe, 4·0 hrs. 39 °/₀; Tenby, 4·7 hrs. (+1·6) 47 °/₀ (+ 16 °/₀); Torquay, 2·9 hrs. (-0·2) 29 °/₀ (-1 °/₀).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, February 22nd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	43	42	42·7	+0·6	SCOTLAND, W. ..	Lamlash	45	40	42·0	-1·8
	Kirkwall	45	42	43·4	+2·8		Ballantrae	44	43	43·4	+0·6
	Wick	43	42	42·7	-0·6	ENGLAND, N.W. ..	Port Erin	46	43	44·7	+0·4
SCOTLAND, E. ..	Cromarty	42	40	40·7	+1·4		Newquay	48	46	46·9	+0·7
	Pennan Bay	43	40	41·1	+0·9	ENGLAND, S.W. ..	Scilly	48	46	46·8	—
	Aberdeen, Cove Bay	42	41	41·7	+1·2		Plymouth‡	48	46	46·7	+0·5
ENGLAND, N.E. ..	Burnmouth, Berwick	39	37	37·8	-1·5		Salcombe	47	42	44·5	-0·8
	Scarborough	45	41	43·0	+2·6	IRELAND, N.W. ..	Sheephaven	46	43	44·3	-0·4
ENGLAND, E. ..	Shipwash Lightship	46	41	43·9	+4·1		Teelin	47	42	44·2	-0·3
	Margate‡	45	41	43·4	+3·0	IRELAND, S.W. ..	Cleggan	47	42	45·6	+1·1
ENGLAND, S.E. ..	Eastbourne‡	44	39	41·3	+0·9		Seafield	50	45	47·9	+2·0
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.
The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.
The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.
Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.
Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

EIGHTH WEEK—February 16th to February 22nd, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	48	25	42·6	32·7	37·6	− 0·3	2	− 5	33	− 4	3	− 1	0·10	−0·84	1·9	−0·4	20	− 4
Eastern.																		
1. SCOTLAND, EAST ...	47	23	41·6	30·9	36·3	− 0·6	0	− 8	40	+ 3	3	0	0·09	−0·41	2·2	−0·5	23	− 5
2. ENGLAND, N.E.	46	25	41·6	32·7	37·2	− 1·3	0	− 9	34	0	2	− 2	0·05	−0·28	2·9	+0·2	29	+ 2
3. ENGLAND, EAST ...	48	26	41·2	32·7	37·0	− 1·4	0	− 12	35	− 2	1	− 2	0·02	−0·31	4·3	+1·4	43	+14
4. MIDLAND COUNTIES ...	47	26	40·7	30·6	35·7	− 2·8	0	− 13	44	+ 6	1	− 2	0·02	−0·38	3·2	+0·7	31	+ 7
5. ENGLAND, S.E.	46	27	40·6	32·0	36·2	− 3·5	0	− 14	40	+10	1	− 1	0·04	−0·39	4·6	+1·6	46	+16
Western.																		
6. SCOTLAND, WEST ...	47	25	42·5	31·9	37·2	− 1·7	1	− 8	36	+ 4	0	− 4	0·00	−0·83	2·3	0·0	23	0
7. ENGLAND, N.W.	48	23	42·0	32·6	37·3	− 2·1	0	− 11	33	+ 3	1	− 3	0·01	−0·51	3·9	+1·0	39	+12
8. ENGLAND, S.W.	46	23	40·4	31·1	35·8	− 5·2	0	− 17	43	+19	0	− 4	0·00	−0·68	4·9	+1·9	48	+19
9. IRELAND, NORTH ...	47	26	42·2	34·0	38·1	− 2·4	1	− 13	28	+ 3	0	− 4	0·00	−0·63	2·3	−0·3	23	− 3
10. IRELAND, SOUTH ...	50	26	42·3	32·9	37·6	− 4·5	1	− 20	32	+12	0	− 3	0·00	−0·76	2·7	−0·2	27	− 2
11. ENGLISH CHANNEL ...	48	32	43·0	35·9	39·5	− 4·5	3	− 20	22	+12	1	− 3	0·04	−0·56	4·5	+0·9	44	+ 9

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 12 Weeks, December 1st, 1912, to February 22nd, 1913.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	98	+ 10	301	−115	64	+ 2	17·92	+ 2·57	0·7	−0·4	10	− 5
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	90	− 1	434	− 58	54	+ 6	8·04	+ 0·92	1·0	−0·6	14	− 7
2. ENGLAND, N.E.	58	18	*	*	*	*	161	+ 56	298	− 95	49	+ 6	5·57	+ 0·51	1·1	−0·6	14	− 6
3 ENGLAND, EAST ...	59	20	*	*	*	*	199	+ 83	224	−221	50	+ 5	5·82	+ 1·06	1·4	−0·5	17	− 6
4. MIDLAND COUNTIES ...	59	13	*	*	*	*	207	+ 75	290	−157	50	+ 6	7·79	+ 1·91	1·2	−0·4	14	− 5
5. ENGLAND, S.E.	59	22	*	*	*	*	264	+ 98	162	−169	47	+ 3	8·11	+ 1·81	1·6	−0·2	19	− 3
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	163	+ 35	240	− 88	58	+ 3	14·36	+ 1·49	0·8	−0·6	10	− 8
7. ENGLAND, N.W.	60	8	*	*	*	*	199	+ 67	213	−108	55	+ 5	9·91	+ 1·78	1·2	−0·2	15	− 3
8. ENGLAND, S.W.	57	19	*	*	*	*	279	+ 65	151	− 94	61	+10	14·19	+ 3·82	1·5	−0·3	18	− 3
9. IRELAND, NORTH ...	58	20	*	*	*	*	243	+ 78	184	− 95	63	+ 6	11·95	+ 2·64	1·1	−0·5	14	− 6
10. IRELAND, SOUTH ...	58	20	*	*	*	*	311	+ 55	154	− 58	67	+14	13·65	+ 2·72	1·3	−0·6	16	− 6
11. ENGLISH CHANNEL ...	60	32	*	*	*	*	428	+103	33	− 56	62	+ 5	10·49	+ 1·69	1·8	−0·5	21	− 5

THE YEAR.—Aggregates, &c., for the Period of 8 Weeks, December 29th, 1912, to February 22nd, 1913.

0. SCOTLAND, NORTH ...	54	22	*	*	*	*	58	+ 4	201	− 93	39	− 2	8·71	−1·34	0·9	−0·4	12	− 5
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	45	− 16	308	− 28	34	+ 3	4·58	+0·10	1·2	−0·7	15	− 8
2. ENGLAND, N.E.	57	18	*	*	*	*	73	+ 3	225	− 43	32	+ 3	3·69	+0·65	1·4	−0·5	16	− 6
3. ENGLAND, EAST ...	58	20	*	*	*	*	93	+ 16	179	−123	30	+ 1	3·37	+0·35	1·8	−0·3	21	− 4
4. MIDLAND COUNTIES ...	57	13	*	*	*	*	98	+ 8	227	− 73	31	+ 2	4·62	+0·86	1·3	−0·5	15	− 6
5. ENGLAND, S.E.	55	22	*	*	*	*	125	+ 22	139	− 92	28	0	4·83	+0·84	1·9	−0·1	22	− 1
Western.																		
6. SCOTLAND, WEST ...	54	17	*	*	*	*	80	0	180	− 52	33	− 3	8·40	+0·37	0·9	−0·7	11	− 8
7. ENGLAND, N.W.	58	10	*	*	*	*	92	+ 9	170	− 52	32	− 1	5·72	+0·60	1·5	−0·2	18	− 2
8. ENGLAND, S.W.	57	19	*	*	*	*	139	+ 5	138	− 37	38	+ 5	8·12	+1·82	1·9	−0·1	22	− 1
9. IRELAND, NORTH ...	57	21	*	*	*	*	125	+ 15	148	− 44	38	+ 1	6·80	+0·92	1·3	−0·5	16	− 5
10. IRELAND, SOUTH ...	58	22	*	*	*	*	168	+ 3	132	− 14	39	+ 5	8·74	+1·93	1·5	−0·5	17	− 6
11. ENGLISH CHANNEL ...	60	32	*	*	*	*	237	+ 41	33	− 37	37	0	6·51	+1·21	2·3	−0·2	25	− 3

M.O., February 26, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 9. NINTH WEEK, SUNDAY, FEBRUARY 23RD, TO SATURDAY, MARCH 1ST, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. The general condition was rather variable, but although the sky was seldom clear, rain was neither frequent nor heavy; over a considerable portion of England and the east of Scotland the greater part of the week was dry.

Temperature was above the average, the difference being as much as 3° in Scotland W. The highest of the maxima occurred generally about the middle of the week, and ranged from 57° in England N.W. to 52° in England N.E. and Scotland W. The lowest of the minima, which were registered on the 23rd in most parts of Britain, and on the 27th or 28th over the major portion of Ireland, varied from 22° in the Midland Counties to 28° in Ireland N., and to 33° in the English Channel. The lowest grass minima recorded were 10° at Greenwich, 14° at Kew, and 15° at Wisley and Tunbridge Wells. At nearly all stations the temperature of the earth was a little below the average at a depth of 1 foot, and a little above it at a depth of 4 feet.

Mean Temperature of the Sea. Except on the south-west coast of Ireland the water was colder than during the corresponding week of last year, the difference being 4° or 5° on the south-east coast of England. On almost all coasts, however, its temperature was above the average, the greatest divergence being + 4°·6 at Seafield. The mean values for the week ranged from 50° at Seafield and 49° at Scilly to 38° at Burnmouth.

Rainfall was less than the average except in Ireland S. Over the greater part of England the aggregate fall was less than 0·2 in. At Fort William on March 1st the heavy fall of 1·3 in. was recorded.

Bright Sunshine was considerably below the normal generally, but in England S.E. the difference was very slight. In the English Channel, where the mean daily duration was 3·3 hours, the percentage of the possible duration was 31, and in England S.E. the corresponding values were 3·0 hour and 28, but in most other districts the percentage was less than 20. In Scotland E. the mean daily duration was no more than 0·8 and amounted to only 8 per cent. of the possible.

Barometer and Wind. During the earlier half of the week depressions moving northward and north-eastward encroached on these Islands, the barometer being highest over central Europe. The main wind current was consequently from the Southward, and fresh or strong breezes were experienced at times; on Sunday the force of a gale was attained at St. Ann's Head. During Wednesday a complex disturbance, with two minima, travelled eastward over the United Kingdom and its neighbourhood, and in its rear pressure increased quickly, a well-formed ridge developing and moving in an easterly direction to the Continent. This was followed by the encroachment of another disturbance from the Atlantic, and the wind, after having been light to fresh from the Northward, returned to the Southward and increased in force. On the north and north-west coasts of Ireland a strong gale was reported.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 35,		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Unusual	Unusual	Moderate
	Rainfall ...	Moderate	Moderate	Light	Moderate	Light	Light	Moderate	Very light	Moderate	Moderate	Heavy	Light
	Sunshine ...	Scanty	Very scanty	Scanty	Moderate	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 13 weeks from Dec. 1st, 1912.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(28870—24.) Wt. 173—804. 450. 3/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°		°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	47	*25, 26*	*30*	*27, 28*	*42·9*	*34·6*	*38·8*	—	*3*	*27*	•	•	37·8	•	•	•	*5*	*0·34*	—	*0·3*	—	*3*	—	*Baltasound.*
a Lerwick	46	25th	30	24, 28	42·7	33·9	38·3	− 0·1	2	29	•	•	•	•	•	•	3	0·18	—	0·9	− 1·6	9	−16	Deerness.
a, Islands .. *a* Stornoway	49	25th	33	1st	45·7	39·0	42·4	+ 3·2	15	8	•	•	•	•	•	•	6	0·90	− 0·09	1·5	− 1·2	15	−11	Stornoway.
a Castlebay, Barra Isd.	*48*	*25, 26*	*36*	*28th*	*46·7*	*40·4*	*43·6*	+ *1·9*	*18*	*4*	•	•	•	•	•	•	*6*	*0·72*	—	*0·9*	—	*9*	—	*Castlebay.*
a Wick	47	25, 26	31	28, 1	44·4	34·9	39·7	+ 1·4	7	27	•	•	•	•	•	•	3	0·10	− 0·42	•	•	•	•	
b, Main- *p* Strathpeffer ..	50	26th	27	23rd	46·7	33·9	40·3	+ 2·3	13	32	•	•	•	•	•	•	3	0·11	− 0·52	1·3	− 1·2	13	−12	Strathpeffer.
land. *p* Glencarron ..	53	25th	27	23rd	46·6	32·9	39·8	+ 2·5	13	35	•	•	•	•	•	•	4	0·60	− 1·17	•	•	•	•	
p Fort Augustus..	52	25th	32	23, 28	46·4	36·6	41·5	+ 3·0	12	22	•	•	•	•	•	•	5	0·32	− 0·63	0·5	− 1·4	5	−14	Fort Augustus.
p Fort William ..	50	25th	32	23rd	45·6	36·3	41·0	+ 1·4	10	23	•	•	•	•	•	•	5	1·81	+ 0·14	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	53	26th	29	23, 24	47·9	33·0	40·5	+ 1·5	17	36	3	22	36·9	+0·4	38·3	+0·8	—	—	—	1·0	—	10	—	Crathes S.
a Nairn	50	24, 25	27	23rd	46·7	31·7	39·2	+ 0·8	13	39	•	•	•	•	•	•	3	0·17	− 0·35	*0·5*	—	*5*	—	*Gordon Castle.*
a Aberdeen	52	26th	32	23, 24, 1	44·3	34·6	39·5	+ 0·7	6	28	•	•	•	•	39·7	+0·6	3	0·08	− 0·45	0·8	− 2·3	8	−22	Aberdeen.
a Balmoral ..	49	25th	24	23rd	44·4	32·3	38·4	+ 3·7	7	36	4	21	•	•	•	•	4	0·18	− 0·46	•	•	•	•	Balmoral.
p Crieff	47	26, 27	29	23, 24, 28	42·6	31·6	37·1	− 1·8	2	37	•	•	•	•	•	•	5	1·35	+ 0·58	0·9	—	9	—	Balruddery.
a Leith	51	26th	25	24th	45·4	33·6	39·5	− 0·5	10	32	•	•	•	•	•	•	2	0·07	− 0·28	•	•	•	•	
p West Linton ..	53	25th	26	23rd	45·0	32·4	38·7	+ 1·5	8	36	5	18	•	•	•	•	4	0·12	—	*0·8*	—	*8*	—	*West Linton.*
p Marchmont ..	52	25th	25	23rd	45·0	32·1	38·6	+ 0·7	8	37	4	22	35·9	−0·7	•	•	3	0·16	− 0·37	1·2	− 1·7	12	−16	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	52	26th	25	23rd	44·9	32·7	38·8	− 0·2	8	35	4	21	35·6	−1·1	39·3	+0·3	4	0·15	− 0·37	1·1	—	11	—	Cockle Park.
a Shields	51	26th	26	24th	45·0	31·6	38·3	− 1·4	8	39	•	•	•	•	•	•	2	0·06	− 0·28	•	•	•	•	
p Durham	50	26th	26	23rd	42·9	32·0	37·5	− 1·1	3	36	?5	23	•	•	•	•	3	0·09	− 0·26	0·4	− 2·5	4	−24	Durham.
a, North .. *p* Rounton	52	26th	28	23rd	45·4	33·9	39·7	+1·3	10	31	4	23	36·9	•	•	•	2	0·06	− 0·32	•	•	•	•	Rounton.
a West Witton ..	*50*	*26th*	*26*	*24th*	*45·1*	*30·7*	*37·9*	—	*9*	*42*	4	24	36·3	•	39·2	•	*2*	*0·32*	—	•	•	•	•	*West Witton.*
p Scarborough ..	50	25th	30	23rd	45·0	35·9	40·6	+ 0·5	8	24	•	•	•	•	42·0†	•	4	0·14	− 0·29	1·2	—	12	—	Scarborough.
p York	50	26th	28	23rd	45·7	34·4	40·1	+ 0·4	10	30	•	•	38·2	−0·1	41·0	+0·6	2	0·13	− 0·25	1·6	− 1·0	15	− 9	York.
a Spurn Head	47	25th	32	23, 24	44·0	35·1	39·6	− 0·1	6	26	6	21	37·6	−0·6	42·0	+1·3	—	—	—	*0·3*	—	*3*	—	*Hull.*
b South .. *a* Lincoln	50	25th	26	23rd	46·0	32·4	39·2	− 0·4	11	36	•	•	•	•	•	•	4	0·33	+ 0·03	*1·7*	—	*16*	—	*Spurn Head.*
a Fulbeck	48	26th	25	23rd	44·4	31·7	38·1	− 1·8	7	38	5	16	38·1	−1·1	42·3	+0·5	4	0·34	− 0·03	•	•	•	•	Lincoln.
											•	•	•	•	•	•	4	0·39	+ 0·02	1·6	—	15	—	Rauceby.
3. ENGLAND, E.																	—	—	—	2·4	—	23	—	Skegness.
p Cromer	55	25th	29	23rd	49·0	33·6	41·3	+ 2·7	20	34	1	24	39·3	+0·5	41·8	+1·0	—	—	—	*4·3*	—	*41*	—	*Lowestoft.*
p Little Massingham ..	52	25th	27	23rd	47·0	33·4	40·2	+ 0·9	14	34	•	•	•	•	•	•	—	—	—	3·2	—	30	—	Cromer.
a, North .. *a* Yarmouth	49	27th	36	23, 24, 25	45·6	37·3	41·5	+ 2·6	10	19	6	19	•	•	•	•	4	0·41	− 0·01	2·6	− 0·4	25	−14	Lit. Massingham
a Norwich	54	26th	27	23rd	47·7	33·7	40·7	+ 1·5	16	33	•	•	38·9	+0·2	43·0	+1·2	3	0·13	− 0·21	4·1	—	39	—	Yarmouth.
p Geldeston	55	26th	26	23rd	47·9	33·3	40·6	+ 0·8	17	35	6	18	37·6	•	•	•	4	0·26	—	*3·9*	—	*37*	—	*Norwich.*
											•	•	•	•	•	•	4	0·21	− 0·13	4·0	+ 0·8	38	+ 7	Geldeston.
p Cambridge	50	24, 25, 27	24	23rd	47·6	33·7	40·7	+ 0·7	16	33	4	17	38·6	−0·6	42·2	+0·6	3	0·14	− 0·18	2·1	− 1·1	20	−11	Cambridge.
a Felixstowe ..	*52*	*27th*	*33*	*28th*	*45·1*	*36·7*	*40·9*	+ *1·1*	*9*	*21*	•	•	•	•	•	•	*3*	*0·12*	—	*5·1*	—	*48*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	50	27th	34	23, 28	44·6	36·6	40·6	+ 1·0	7	21	2	29	40·6	+0·3	43·6	+0·5	2	0·08	—	3·8	—	36	—	Clacton.
a Rothamsted	52	27th	25	23rd	47·3	32·9	40·1	+ 0·9	15	36	•	•	•	•	•	•	4	0·12	− 0·31	1·1	− 1·9	10	−18	Rothamsted.
a Shoeburyness ..	*52*	*27th*	*34*	*24, 28*	*47·1*	*36·9*	*42·0*	+ *1·5*	*14*	*14*	6	22	40·9	+0·8	•	•	*2*	*0·06*	− *0·22*	*4·1*	—	*39*	—	*Southend.*
p Tottenham	51	27th	26	23rd	46·6	35·9	41·3	+ 0·9	13	25	3	19	•	•	43·2	+0·7	1	0·10	—	1·2	—	11	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	52	26th	24	23rd	44·9	30·7	37·8	− 0·4	8	42	4	20	36·7	−1·0	40·6	+0·9	—	—	—	*1·7*	—	*17*	—	*Hudderafield.*
a Bawtry	51	25th	25	23rd	47·4	32·0	39·7	− 0·1	15	39	5	19	37·0	−1·1	39·6	+0·2	2	0·12	− 0·38	0·6	—	6	—	Harrogate.
p Buxton	*48*	*25, 26*	*27*	*23rd*	*43·6*	*33·7*	*38·7*	+ *2·1*	*4*	*31*	6	18	37·8	•	40·6	+1·7	2	0·03	− 0·33	1·0	− 1·5	9	−15	Worksop.
a East .. *a* Nottingham	50	25th	23	23rd	46·4	31·6	38·0	− 0·6	12	39	5	19	37·0	−0·2	41·2	+0·9	*3*	*0·33*	− *0·59*	*0·9*	—	*9*	—	*Buxton.*
p Birmingham, Edgbsn.	50	25th	27	23rd	45·1	34·6	39·9	+ 0·5	9	28	4	18	36·9	−0·6	39·2	•	4	0·25	− 0·13	1·1	—	10	—	Nottingham.
a Raunds	50	25th	22	23rd	46·3	31·1	38·7	− 0·9	12	41	6	16	39·2	−0·4	43·5	+0·5	3	0·27	− 0·13	0·9	—	9	—	Birmingham.
p Oxford	50	27th	29	23rd	47·1	36·7	41·9	+ 1·4	14	22	4	17	37·7	•	43·4	•	3	0·12	—	•	•	•	•	Raunds.
											4	20	•	•	•	•	3	0·18	− 0·20	1·6	− 1·3	15	−13	Oxford.
a Cheadle	50	26th	30	23, 1	45·1	34·4	39·8	+ 1·2	9	29	4	21	37·3	−0·3	40·9	+0·8	—	—	—	1·4	—	14	—	Sheffield.
p Shrewsbury	52	25th	27	23rd	47·4	34·0	40·7	0·0	15	32	5	24	•	•	•	•	3	0·23	− 0·27	•	•	•	•	Cheadle.
b, West .. *a* Hereford	51	25, 27	25	23rd	48·1	31·7	39·9	− 0·5	17	40	5	21	•	•	•	•	1	0·05	—	•	•	•	•	Shrewsbury.
a Cirencester	48	24, 25, 27	24	23rd	45·6	31·7	38·7	− 0·5	10	39	5	20	•	•	•	•	3	0·11	− 0·35	•	•	•	•	Hereford.
a Bath	54	25th	28	23rd	49·6	34·0	41·8	+ 0·9	21	33	4	24	38·9	•	41·9	•	3	0·30	− 0·19	2·2	− 0·9	21	− 8	Cirencester.
											•	•	40·2	−0·2	44·5	+1·1	3	0·24	− 0·26	2·1	—	20	—	Bath.
5. ENGLAND, S.E.																								
p Kew	51	27th	27	23rd	47·1	36·0	41·6	+ 1·0	14	25	3	18	39·3	−0·5	44·9	+2·2	—	—	—	•	•	•	•	Canterbury
a Marlborough	51	27th	26	23rd	46·8	34·7	40·7	+ 1·3	13	29	4	14	38·6	−0·9	43·5	+1·0	2	0·05	− 0·33	1·6	− 1·0	15	− 9	Kew.
a Margate	50	25th	34	24th	46·1	37·6	41·9	+ 1·5	11	19	4	18	•	•	45·4	•	3	0·32	− 0·24	1·5	− 1·1	14	−11	Marlborough.
a Wisley, Surrey ..	51	27th	25	23rd	47·3	34·9	41·1	+ 0·2	15	29	2	29	41·4	+1·3	45·3	+3·8	1	0·04	− 0·32	3·9	+ 0·8	37	+ 7	Margate.
a Swarraton	51	27th	25	23rd	46·6	34·3	40·5	+ 1·1	13	31	4	15	39·0	−0·5	42·2	+0·3	3	0·06	—	2·1	—	20	—	Wisley
a Tunbridge Wells ..	51	27th	26	23rd	46·7	33·7	40·2	+ 0·5	13	32	1	27	40·6	−0·1	44·2	+1·2	3	0·19	− 0·34	3·1	—	29	—	Worthing.
a Dungeness	52	27th	36	23, 1	46·7	38·1	42·4	+ 2·0	19	11	5	15	38·3	−0·5	•	•	2	0·09	− 0·43	3·8	+ 0·8	36	+ 8	Tunbridge Wells
p Hastings..	52	27th	36	23, 28	46·6	38·9	42·8	+ 2·1	19	9	•	•	•	•	•	•	2	0·05	− 0·32	4·1	—	39	—	Littlestone.
p Southampton	54	27th	32	23rd	48·6	37·3	43·0	+ 0·6	27	13	0	31	39·8	•	43·2	•	3	0·12	− 0·38	*3·8*	+ *0·3*	*36*	+ *3*	*Hastings.*
a Ventnor	54	27th	36	28th	48·0	39·6	43·8	+ 1·4	23	7	3	24	•	•	•	•	2	0·20	− 0·30	2·2	− 1·1	21	−10	Southampton
											•	•	•	•	•	•	4	0·14	− 0·35	2·6	− 1·0	24	− 9	Ventnor.
											4	26	41·1	−0·3	44·1	+0·2	—	—	—	*2·8*	—	*26*	—	*Portsmouth.*
											•	•	41·5	•	44·7	•	—	—	—	3·7	+ 0·4	35	+ 3	Eastbourne.
											•	•	40·2	•	42·2	•	—	—	—	*2·3*	—	*22*	—	*Bournemouth.*
LONDON.											1	39	•	•	42·1	•	—	—	—	*2·5*	− *0·9*	*23*	− *8*	*Brighton.*
a Westminster	*53*	*27th*	*31*	*23rd*	*48·1*	*35·0*	*43·1*	+ *2·4*	*25*	*11*	3	22	•	•	•	•	*3*	*0·06*	− *0·31*	*1·6*	*0·0*	*15*	*0*	*Westminster.*
a Greenwich	*53*	*26th*	*24*	*23rd*	*48·3*	*34·1*	*41·2*	+ *0·2*	*18*	*32*	6	10	•	•	•	•	*4*	*0·12*	− *0·27*	*2·4*	− *0·1*	*23*	− *1*	*Greenwich.*
a Hampstead	*53*	*27th*	*28*	*23rd*	*46·3*	*35·7*	*41·0*	—	*12*	*25*	3	18	•	•	•	•	*3*	*0·09*	—	*1·4*	—	*13*	—	*Hampstead.*
a Camden Square ..	*53*	*27th*	*24*	*23rd*	*48·3*	*35·1*	*41·7*	—	*18*	*29*	3	21	•	•	•	•	*3*	*0·10*	—	*1·4*	—	*13*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	49	27th	30	28th	46·1	36·9	41·5	+ 2·2	11	21	•	•	•	•	•	•	5	0·50	− 0·36	•	•	•	•	
p Glasgow	48	25, 26, 27	32	23rd	45·3	38·1	41·7	+ 2·2	9	16	2	24	•	•	•	•	5	0·38	− 0·24	0·6	− 1·4	6	−14	Glasgow.
p Rothesay .. S	52	27th	36	23, 28	47·4	39·4	43·4	+ 3·2	21	7	•	•	•	•	41·4	−0·6	5	0·68	− 0·14	•	•	•	•	
a Kilmarnock	49	25, 26, 27	30	23rd	46·0	36·7	41·4	+ 2·0	11	22	•	•	•	•	•	•	5	0·30	—	*1·2*	—	*12*	—	*Kilmarnock.*
a Colmonell ..	51	25th	34	23rd	47·6	37·7	42·7	+ 3·4	23	12	1	28	•	•	•	•	5	1·04	+ 0·20	•	•	•	•	
p Dumfries	51	26, 27	25	23rd	45·9	35·0	40·5	+ 0·7	11	28	*3	22	38·0	•	40·3	•	4	0·31	− 0·39	*1·2*	—	*12*	—	*Dumfries.*
p Cally, Gatehouse	50	26, 27	32	28th	46·0	37·3	41·7	+ 2·4	11	20	•	•	•	•	•	•	5	0·66	− 0·29	•	•	•	•	
b I. OF MAN																								
p Douglas	50	27th	37	23rd	47·0	39·1	43·1	+ 2·5	20	8	0	32	•	•	•	•	4	0·44	− 0·30	2·9	− 0·3	28	− 3	Douglas.
											3	19	37·2	−0·2	40·5	+0·6	—	—	—	*1·4*	—	*14*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											2	26	•	•	•	•	—	—	—	0·9	—	9	—	Hoylake.
p Aspatria	52	25th	30	23rd	46·7	36·6	41·7	+ 3·1	13	23	3	16	39·3	•	42·6	•	4	0·25	− 0·35	1·7	—	16	—	Aspatria.
p Newton Rigg	49	26th	27	23rd	44·6	33·9	39·3	+ 1·7	7	31	6	18	38·0	−0·4	40·0	+0·4	4	0·20	− 0·47	0·8	− 1·9	8	−19	Newton Rigg.
p Stonyhurst	50	26th	31	23rd	45·0	37·4	41·2	+ 2·2	8	18	3	21	•	•	•	•	3	0·32	− 0·49	1·1	− 1·5	11	−15	Stonyhurst.
p Blackpool	52	25th	30	23rd	46·6	35·7	41·2	+ 1·2	13	26	3	22	39·8	•	43·4	•	3	0·20	− 0·33	1·7	− 1·0	16	−10	Blackpool.
p Manchester (Whit. Pk.)	54	25th	31	23rd	47·7	36·1	41·9	+ 1·5	16	25	3	16	•	•	•	•	4	0·23	− 0·19	*1·2*	− *0·4*	*12*	− *4*	*Whit. Park.*
a Liverpool (Bidston) ..	51	25, 26	29	23rd	46·1	34·7	40·4	− 0·4	11	28	•	•	•	•	•	•	1	0·03	− 0·42	*1·6*	—	*15*	—	*Liverpool.*
a Hawarden Bridge ..	53	25, 26	29	23rd	47·1	35·4	41·3	0·0	14	27	3	21	38·0	−0·4	40·3	+0·2	3	0·05	− 0·31	*1·7*	− *1·2*	*16*	−*11*	*Southport.*
b, NORTH WALES.											2	29	37·8	−0·4	42·2	+0·8	—	—	—	*0·8*	—	*8*	—	*Manchester (City)*
p Llandudno	57	25th	32	23rd	49·7	39·3	44·5	+ 2·5	29	8	•	•	•	•	•	•	2	0·04	− 0·45	1·7	− 1·3	16	−12	Llandudno.
a Holyhead	50	24, 25, 26	32	23rd	47·6	39·1	43·4	+ 1·4	22	8	•	•	•	•	•	•	4	0·24	− 0·34	0·9	—	9	—	Aberdovey.
p Bettws-y-Coed ..	55	25th	26	23rd	50·4	34·3	42·4	+ 1·0	35	22	2	25	39·3	−0·5	42·1	−0·5	0	0·00	—	1·9	—	18	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from average.	Mean.	Difference from average								
	°		°		°	°,	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				0·9	—			Aberystwyth.
a Llangammarch Wells	51	25th	25	28th	47·6	33·1	40·4	+ 1·6	16	35	4	17	38·8	− 0·8	43·1	+0·3	4	0·43	—	0·8	—	8	—	Llangammarch
a Pembroke	50	25th	38	23rd	48·0	40·7	44·4	+ 2·1	22	4	•	•	•	•	•	•	2	0·67	+ 0·08	1·4	− 1·9	13	−18	Pembroke.[Wells
p Cardiff	51	25th	29	23, 1	47·7	34·9	41·3	+ 0·3	16	29	5	20	39·2	− 0·9	42·7	+0·3	3	0·41	− 0·29	*2·4*	—	*23*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	54	25th	30	23, 1	48·3	35·7	42·0	+ 1·0	18	18	4	26	•	•	•	•	3	0·37	− 0·17	*2·0*	—	*19*	—	*Clifton.*
a Shaftesbury	50	27th	29	23rd	45·0	33·0	39·0	− 0·1	8	34	•	•	39·0	•	42·5	•	4	0·24	− 0·31	•	•	•	•	Shaftesbury.
a Arlington	50	25th	29	28th	46·7	35·3	41·0	+ 0·9	13	27	•	•	•	•	•	•	3	0·31	− 0·60	•	•	•	•	Arlington.
a Newquay	*53*	*25th*	*34*	*27th*	*48·5*	*38·7*	*43·6*	*0·0*	*25*	*9*	•	•	42·9	•	•	•	2	*0·50*	*− 0·10*	1·8	− 1·6	17	−15	Newquay.
a Cullompton	54	27th	28	1st	49·4	35·9	42·7	+ 1·2	31	17	4	22	41·6	•	•	•	3	0·26	− 0·37	2·5	− 0·6	23	− 5	Cullompton.
a Portland	50	27th	36	28, 1	47·4	40·0	43·7	+ 1·5	20	6	•	•	•	•	•	•	3	0·25	—	*3·4*	—	*32*	—	*Weymouth.*
p Plymouth	52	25, 26	34	1st	49·9	39·9	44·9	+ 2·1	29	6	3	28	41·8	− 0·4	•	•	3	0·54	− 0·09	2·8	− 0·6	26	− 5	Plymouth.
p Falmouth	52	25th	40	28th	48·1	42·6	45·4	+ 1·9	24	0	•	•	•	•	•	•	2	0·46	− 0·34	2·3	− 1·4	22	−13	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	50	25th	35	23, 1	47·1	38·4	42·8	+ 1·5	21	10	•	•	•	•	•	•	5	0·19	− 0·33	•	•	•	•	• •
a Blacksod Point ..	52	1st	36	27th	49·6	38·7	44·2	+ 1·3	29	9	•	•	•	•	•	•	5	1·09	+ 0·22	•	•	•	•	• •
p Markree Castle ..	52	27th	28	27, 28	49·3	35·0	42·2	+ 1·4	31	20	3	23	41·2	•	43·8	•	3	0·49	− 0·25	1·4	− 1·3	14	−13	Markree Castle.
a Birr Castle	55	25th	30	27, 28	50·1	34·7	42·4	+ 1·4	33	20	•	•	•	•	•	•	4	0·42	− 0·10	*2·0*	*− 0·9*	*19*	*− 8*	*Birr Castle.*
b, East .. { *p* Armagh	52	25th	35	28th	48·4	38·9	43·7	+ 3·1	25	9	1	28	40·9	+0·1	42·9	0·0	2	0·32	− 0·19	1·8	− 0·9	17	− 8	Armagh.
a Donaghadee	50	26th	36	23, 1	46·9	38·6	42·8	+ 1·5	20	10	•	•	•	•	•	•	4	0·34	− 0·21	•	•	•	•	• •
											2	27	42·0	+0·3	43·8	0·0	—	—	—	•	•	•	•	Trinity Coll.
											4	24	•	•	•	•	—	—	—	1·2	− 1·9	11	−18	Phœnix Park.
10. IRELAND, S.																								
a, East .. { *p* Dublin, City	53	25th	36	27, 28	48·9	40·7	44·8	+ 2·0	25	4	0	33	•	•	•	•	4	0·30	− 0·15	•	•	•	•	Dublin City.
a Kilkenny	51	25, 27	29	28th	49·4	35·0	42·2	+ 0·7	31	20	•	•	•	•	•	•	4	0·91	+ 0·33	•	•	•	•	• •
a Waterford	53	25, 27	31	28th	49·6	37·4	43·5	+ 1·4	30	13	•	•	•	•	•	•	5	1·72	+ 0·98	•	•	•	•	• •
a Birr Castle	55	25th	30	27, 28	50·1	34·7	42·4	+ 1·4	33	20	•	•	•	•	•	•	4	0·42	− 0·10	2·0	− 0·9	19	− 8	Birr Castle.
a Foynes	52	24th	31	27th	49·9	36·6	43·3	+ 0·3	32	15	•	•	•	•	•	•	4	0·40	− 0·29	•	•	•	•	• •
a Cahir	52	25th	27	27th	49·9	35·7	42·8	+ 0·8	32	18	•	•	•	•	•	•	4	0·67	—	•	•	•	•	• •
b, West .. { *a* Killarney	56	27th	29	27th	52·4	38·2	45·3	+ 2·3	39	11	•	•	•	•	•	•	4	1·65	+ 0·49	•	•	•	•	• •
a Valencia	53	27th	32	27, 28	50·9	38·0	44·5	0·0	34	11	•	•	•	•	•	•	6	1·92	+ 0·81	2·6	− 0·5	25	− 5	Valencia.
a Roche's Point ..	52	27th	37	28, 1	49·1	40·6	44·9	+ 1·4	26	4	•	•	•	•	•	•	6	1·42	+ 0·67	2·0	•	19	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	53	25, 26	?39	23rd	50·9	42·3	46·6	+ 1·3	32	0	•	•	•	•	•	•	4	0·45	− 0·15	2·9	− 0·8	27	− 7	Scilly.
a Jersey, St. Aubins ..	52	27th	33	23rd	48·6	40·0	44·3	+ 0·7	25	6	•	•	•	•	•	•	2	0·07	− 0·46	3·8	− 0·1	36	− 1	St. Heliers.
a Guernsey (Villa Carey)	52	27th	39	23, 1	50·0	41·0	45·5	+ 1·4	29	3	1	23	42·9	− 0·3	45·5	+0·5	2	0·12	− 0·50	3·2	− 0·6	30	− 6	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·0 hrs. 28 %; Ramsgate, 4·1 hrs. 39 %; Rhyl, 1·3 hrs. 12 %; Salcombe, 3·2 hrs. 30 %; Tenby, 1·5 hrs. (−2·0) 14 %(−19 %); Torquay, 3·2 hrs. (−0·3) 30 %(−3 %).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, March 1st.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	43	42	42·3	+0·3	SCOTLAND, W. ..	{ Lamlash	46	41	43·4	−0·2
	{ Kirkwall	43	41	42·5	+2·1		{ Ballantrae	44	43	43·4	+0·6
	{ Wick	44	43	43·3	+0·3	ENGLAND, N.W. ..	Port Erin	46	43	44·7	+0·7
SCOTLAND, E. ..	{ Cromarty	42	40	40·9	+1·6	ENGLAND, S.W. ..	{ Newquay	46	45	45·3	−0·7
	{ Pennan Bay	42	40	41·1	+1·1		{ Scilly	51	47	48·9	—
	{ Aberdeen, Cove Bay	42	41	41·7	+1·3		{ Plymouth‡	47	45	46·2	+0·1
ENGLAND, N.E. ..	{ Burnmouth, Berwick	39	37	38·1	−1·1		{ Salcombe	48	45	46·2	+1·1
	{ Scarborough	44	40	41·8	+1·4	IRELAND, N.W. ..	{ Sheephaven	46	41	44·2	−0·6
ENGLAND, E. ..	{ Shipwash Lightship	45	43	43·7	+3·7		{ Teelin	46	44	44·7	0·0
	{ Margate‡	42	41	41·9	+1·2	IRELAND, S.W. ..	{ Cleggan	48	41	45·1	+0·6
ENGLAND, S.E. ..	Eastbourne‡	43	39	40·7	−0·3		{ Seafield	54	47	50·3	+4·6
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

NINTH WEEK—February 23rd to March 1st, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	53	27	45·4	35·4	40·4	+ 2·5	10	+ 4	25	−11	4	− 1	0·57	−0·34	1·1	−1·4	10	−13
Eastern.																		
1. SCOTLAND, EAST ...	53	24	45·2	32·7	38·9	+ 1·6	9	+ 2	34	− 7	3	− 1	0·28	−0·23	0·8	−1·9	8	−19
2. ENGLAND, N.E.	52	25	44·8	33·3	39·1	+ 0·4	8	− 2	33	0	3	− 1	0·19	−0·16	1·4	−1·6	13	−15
3. ENGLAND, EAST ...	55	24	47·0	34·5	40·8	+ 2·0	14	+ 1	30	− 7	3	− 2	0·18	−0·17	2·8	−0·3	26	− 3
4. MIDLAND COUNTIES ...	54	22	46·6	33·0	39·8	+ 1·0	13	− 1	35	− 1	3	− 1	0·17	−0·25	1·4	−1·3	13	−12
5. ENGLAND, S.E.	54	25	47·0	36·5	41·8	+ 1·8	14	− 1	23	− 6	2	− 2	0·13	−0·33	3·0	−0·1	28	− 1
Western.																		
6. SCOTLAND, WEST ...	52	25	46·4	37·5	42·1	+ 3·0	20	+ 11	13	−17	5	+ 1	0·54	−0·28	1·8	−0·8	17	− 8
7. ENGLAND, N.W.	57	26	47·2	36·3	41·7	+ 2·2	15	+ 4	23	− 6	3	0	0·16	−0·39	1·3	−1·5	13	−14
8. ENGLAND, S.W.	54	25	47·8	37·1	42·5	+ 1·5	24	+ 7	14	−10	3	0	0·39	−0·31	1·8	−1·4	17	−13
9. IRELAND, NORTH ...	55	28	48·6	37·4	43·0	+ 2·5	26	+ 11	13	−12	4	− 1	0·48	−0·17	1·6	−1·1	15	−10
10. IRELAND, SOUTH ...	56	27	50·0	37·4	43·7	+ 1·5	31	+ 10	13	− 6	5	+ 1	1·05	+0·31	2·0	−1·2	18	−12
11. ENGLISH CHANNEL ...	53	33	49·8	41·1	45·5	+ 1·7	28	+ 5	3	− 6	3	− 1	0·21	−0·40	3·3	−0·5	31	− 5

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 13 Weeks, December 1st, 1912, to March 1st, 1913.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	108	+ 14	326	−126	68	+ 1	18·49	+ 2·23	0·7	−0·5	10	− 6
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	99	+ 1	468	− 65	57	+ 5	8·32	+ 0·69	1·0	−0·7	13	− 8
2. ENGLAND, N.E.	58	18	*	*	*	*	169	+ 54	331	− 95	52	+ 5	5·76	+ 0·35	1·2	−0·6	14	− 7
3 ENGLAND, EAST ...	59	20	*	*	*	*	213	+ 84	254	−228	53	+ 3	6·00	+ 0·89	1·5	−0·5	18	− 6
4. MIDLAND COUNTIES ...	59	13	*	*	*	*	220	+ 74	325	−158	53	+ 5	7·96	+ 1·66	1·2	−0·5	14	− 6
5. ENGLAND, S.E.	59	22	*	*	*	*	278	+ 97	185	−175	49	+ 1	8·24	+ 1·48	1·7	−0·2	20	− 3
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	183	+ 46	253	−105	63	+ 4	14·90	+ 1·21	0·8	−0·7	10	− 8
7. ENGLAND, N.W.	60	8	*	*	*	*	214	+ 71	236	−114	58	+ 5	10·07	+ 1·39	1·2	−0·4	15	− 4
8. ENGLAND, S.W.	57	19	*	*	*	*	303	+ 72	165	−104	64	+10	14·58	+ 3·51	1·6	−0·3	18	− 4
9. IRELAND, NORTH ...	58	20	*	*	*	*	269	+ 89	197	−107	67	+ 5	12·43	+ 2·47	1·2	−0·5	14	− 6
10. IRELAND, SOUTH ...	58	20	*	*	*	*	342	+ 65	167	− 64	72	+15	14·70	+ 3·03	1·4	−0·6	16	− 7
11. ENGLISH CHANNEL ...	60	32	*	*	*	*	456	+108	36	− 62	65	+ 4	10·70	+ 1·29	2·0	−0·4	22	− 5

THE YEAR.—Aggregates, &c., for the Period of 9 Weeks, December 29th, 1912, to March 1st, 1913.

0. SCOTLAND, NORTH ...	54	22	*	*	*	*	68	+ 8	226	−104	43	− 3	9·28	−1·68	0·9	−0·5	11	− 6
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	54	− 14	342	− 35	37	+ 2	4·86	−0·13	1·2	−0·8	14	−10
2. ENGLAND, N.E.	57	18	*	*	*	*	81	+ 1	258	− 43	35	+ 2	3·88	+0·49	1·4	−0·6	16	− 7
3. ENGLAND, EAST ...	58	20	*	*	*	*	107	+ 17	209	−130	33	− 1	3·55	+0·18	1·9	−0·3	22	− 4
4. MIDLAND COUNTIES ...	57	13	*	*	*	*	111	+ 7	262	− 74	34	+ 1	4·79	+0·61	1·3	−0·6	15	− 6
5. ENGLAND, S.E.	55	22	*	*	*	*	139	+ 21	162	− 97	30	− 2	4·96	+0·51	2·1	0·0	23	0
Western.																		
6. SCOTLAND, WEST ...	54	17	*	*	*	*	100	+ 11	193	− 69	38	− 2	8·94	+0·09	1·0	−0·7	12	− 8
7. ENGLAND, N.W.	58	10	*	*	*	*	107	+ 13	193	− 58	35	− 1	5·88	+0·21	1·5	−0·3	17	− 3
8. ENGLAND, S.W.	57	19	*	*	*	*	163	+ 12	152	− 47	41	+ 5	8·51	+1·51	1·9	−0·3	21	− 3
9. IRELAND, NORTH ...	57	21	*	*	*	*	151	+ 26	161	− 56	42	0	7·28	+0·75	1·4	−0·5	15	− 6
10. IRELAND, SOUTH ...	58	22	*	*	*	*	199	+ 13	145	− 20	44	+ 6	9·79	+2·24	1·5	−0·7	17	− 7
11. ENGLISH CHANNEL ...	60	32	*	*	*	*	265	+ 46	36	− 43	40	− 1	6·72	+0·81	2·4	−0·3	26	− 3

M.O., March 5, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE E.C.: or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH: or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 10. TENTH WEEK, SUNDAY, MARCH 2ND, TO SATURDAY, MARCH 8TH, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. Over a large area in the north and west of the Kingdom, and also at a few places in the south, precipitation occurred daily, but in the eastern and south-eastern districts a considerable portion of the week was fair to fine. During the latter half of the period hail, sleet and snow occurred in many northern regions, and on Saturday showers of sleet and snow fell in the south and south-east. Thunder and lightning were experienced on several occasions in some parts of Scotland, and on the 6th and 7th at Foynes, while lightning only was observed over a wide area.

Temperature was above the average, the excess being as large as 5°·7 in England E. and 5°·1 in the Midland Counties, but no more than about 2° in Ireland and the north and east of Scotland. The highest of the maxima were registered at most stations on the 4th, and varied from 58° in England E., the Midland Counties and Ireland N. to 54° in Scotland N., and 53° in Scotland W. The lowest of the minima, which occurred generally on the 8th, ranged from 18° in Scotland E. (at Balmoral) to 32° in England N.W., and to 39° in the English Channel. The lowest grass readings were 15° at Balmoral, 18° at West Linton, 19° at Crathes, and 22° at Rauceby, Cheadle, Marlborough and Wisley. The temperature of the earth was above the average very generally, both at a depth of 1 foot and 4 feet.

Mean Temperature of the Sea. On the south-west coast of Ireland and at Scilly and Lamlash the water was warmer than during the corresponding week of last year, but on all other parts of the coast it was colder. At almost all stations, however, the temperature was above the average. The mean values ranged from 50° at Seafield and 49° at Scilly to 39° at Burnmouth.

Rainfall was less than the average in most of the English districts, but considerably more in Ireland, Scotland, the north-west of England and the English Channel.

Bright Sunshine exceeded the average, the percentage of the possible duration ranging from 46 in Scotland E. and 44 in England N.E. to 31 or 32 in Ireland and the south-west of England and to 29 in Scotland N. The highest percentage at any individual station was 57 at Cockle Park, Morpeth, and the lowest 20 at Baltasound. In Scotland E. the mean daily duration was as high as 5 hours and in England N.E. 4·9 hours.

Barometer and Wind. Early in the week some secondary depressions travelled eastward across the United Kingdom, but later, with large and deep cyclonic systems moving eastward over the Icelandic region, the barometrical gradient over these Islands was favourable for winds from the South-West, and was often steep. Gales were of frequent occurrence on the most north-western and northern coasts, and were sometimes experienced further south. On the 4th and 6th high winds or gales were felt on all coasts, a gust at Southport on the latter date attaining a velocity of 66 miles per hour. During Friday the wind became more Westerly, and on Saturday, when an anticyclone was extending towards this country from the south-westward, it veered temporarily to North-West.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 39.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Very heavy	Heavy	Light	Moderate	Moderate	Moderate	Heavy	Heavy	Moderate	Heavy	Heavy	Heavy
	Sunshine ...	Abundant	Abundant	Abundant	Moderate	Abundant	Moderate	Abundant	Abundant	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 1 week from March 2nd, 1913.	Warmth ...	0 * 0	0 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0
	Rainfall ...	1 * 0	1 * 0	0 * 1	0 * 0	0 * 0	0 * 0	1 * 0	1 * 0	0 * 0	1 * 0	1 * 0	1 * 0
	Sunshine ...	1 * 0	1 * 0	1 * 0	0 * 0	1 * 0	0 * 0	1 * 0	1 * 0	0 * 0	0 * 0	0 * 0	0 * 0

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(28994—24.) Wt. 173—804. 450. 3/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	c		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*47*	*4th*	*29*	*7th*	*42·8*	*34·4*	*38·5*	—	*2*	*26*	•	•	38·5		•	•	7	*2·30*	—	*2·7*	—	*20*	—	*Baltasound.*
a Lerwick	48	4th	29	8th	43·4	35·9	39·5	+ 1·1	4	21	•	•	•		•	•	7	1·83	—	3·2	+ 0·3	30	+ 3	Deerness.
a, Islands .. *a* Stornoway	50	4th	29	8th	45·4	33·9	39·5	+ 0·3	10	30	•	•	•		•	•	7	2·24	+ 1·28	3·6	+ 0·7	34	+ 6	Stornoway.
a Castlebay, Barra Isd.	*49*	*4th*	*33*	*8th*	*45·7*	*36·6*	*41·0*	*- 0·8*	*10*	*20*	•	•	•		•	•	7	*0·76*	—	*2·6*	—	*24*	—	*Castlebay.*
a Wick	49	4th	30	8th	44·1	33·6	38·7	0·0	6	30	•	•	•		•	•	6	0·68	+ 0·18	•	•	•	•	
b, Main- *p* Strathpeffer	54	4th	32	7, 8	47·1	35·6	41·2	+ 3·1	14	25	•	•	•		•	•	6	1·04	+ 0·42	3·5	+ 0·8	32	+ 8	Strathpeffer.
land. *p* Glencarron	48	4th	30	7th	44·2	34·7	39·3	+ 1·8	6	26	•	•	•		•	•	78	2·07	+ 0·28	•	•	•	•	
p Fort Augustus.. ..	48	4th	30	8th	45·9	34·7	40·1	+ 1·5	11	27	•	•	•		•	•	7	2·47	+ 1·58	2·4	+ 0·2	22	+ 2	Fort Augustus.
p Fort William	48	3-5	31.	8th	46·6	35·9	41·1	+ 1·3	13	24	•	•	•		•	•	7	4·20	+ 2·58	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	55	4th	29	8th	47·3	34·3	40·6	+ 1·1	15	29	2	19	38·7	+1·8	39·0	+1·1	—	—	—	5·6	—	51	—	Crathes S.
a Nairn	53	4th	28	8th	46·0	33·1	39·4	+ 0·6	11	33	•	•	•		•	•	5	0·49	- 0·03	*5·7*	—	*52*	—	*Gordon Castle.*
a Aberdeen	53	4th	30	8th	47·6	35·9	41·6	+ 2·4	16	24	•	•	•		•	•	7	0·79	+ 0·36	4·7	—	43	—	Nairn.
a Balmoral ..	46	4th	18	8th	43·1	30·4	36·6	+ 1·6	3	40	5	15	•		•	•	4	0·35	- 0·17	5·5	+ 2·1	51	+19	Aberdeen.
p Crieff	49	2nd	30	8th	46·6	32·7	39·4	+ 0·3	13	34	•	•	•		•	•	5	1·69	+ 1·04	•	•	•	•	Balmoral.
a Leith	54	4th	32	8th	49·6	37·3	43·3	+ 2·8	29	13	•	•	•		•	•	6	2·22	+ 1·50	4·7	—	43	—	Balruddery.
p West Linton ..	49	4th	25	8th	45·3	32·4	38·7	+ 1·4	9	35	4	18	•		•	•	5	0·73	+ 0·38	•	•	•	•	
p Marchmont .. S	50	4th	29	8th	47·1	34·3	40·5	+ 2·5	14	29	2	26	38·6	+1·4	•	•	7	0·89	—	*3·4*	—	*31*	—	*West Linton.*
																	6	0·75	+ 0·20	4·3	+ 1·2	39	+ 5	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	56	4th	32	8th	49·7	36·7	43·0	+ 3·6	29	15	4	28	38·8	+2·1	39·9	+0·8	5	0·68	+ 0·15	6·2	—	57	—	Cockle Park.
a Shields	53	4th	32	8th	50·0	36·0	42·8	+ 2·8	31	17	•	•	•		•	•	5	0·46	+ 0·08	•	•	•	•	
p Durham	53	4th	32	7th	48·7	35·6	42·0	+ 3·2	19	18	1	28	•		•	•	4	0·32	- 0·06	5·1	+ 1·9	46	+17	Durham.
a, North .. *p* Rounton	55	4th	31	8th	50·1	36·4	43·1	+ 4·3	31	16	4	26	39·7		•	•	6	0·34	- 0·06	•	•	•	•	Rounton.
a West Witton	*52*	*4th*	*32*	*8th*	*47·1*	*36·4*	*41·6*	—	*14*	*22*	1	29	39·5		39·1		7	*2·03*	—	•	•	•	•	*West Witton.*
p Scarborough	53	4th	35	2nd	50·5	38·9	44·5	+ 4·4	31	9	•	•	•		42·0†		7	0·20	- 0·22	4·5	—	41	—	Scarborough.
p York	57	4th	34	8th	51·9	39·4	45·5	+ 5·3	35	7	•	•	40·7	+2·2	41·4	+0·9	6	0·27	- 0·09	3·4	+ 0·5	31	+ 5	York.
											4	25	40·7	+2·2	42·0	+1·3	—	—	—	*3·1*	—	*28*	—	*Hull.*
a Spurn Head	54	4th	35	2, 8	49·9	37·6	43·6	+ 3·5	30	12	•	•	•		•	•	2	0·16	- 0·14	*4·6*	—	*42*	—	*Spurn Head.*
b South .. *a* Lincoln	56	3, 4	32	8th	52·1	38·4	45·1	+ 4·8	37	10	•	•	39·8	+2·4	40·5	+0·8	5	0·28	- 0·07	•	•	•	•	Lincoln.
a Fulbeck	56	6th	30	8th	51·4	37·9	44·5	+ 4·3	35	11	4	22	42·3	+2·8	42·3	+0·5	2	0·14	- 0·22	5·4	—	49	—	Rauceby.
											•	•	•	•	•	•	—	—	—	4·5	—	41	—	Skegness.
3. ENGLAND, E.											1	28	42·3	+3·2	42·6	+1·7	—	—	—	*4·2*	—	*38*	—	*Lowestoft.*
p Cromer	55	4-6	34	8th	51·7	39·0	45·2	+ 6·0	35	8	•	•	•	•	•	•	3	0·13	—	4·3	—	39	—	Cromer.
p Little Massingham ..	54	4th	31	8th	50·7	37·6	44·0	+ 4·2	32	12	4	25	•	•	•	•	3	0·23	- 0·19	3·6	+ 0·3	33	+ 3	Lit. Massingham
a, North .. *a* Yarmouth	56	5, 6	33	8th	52·4	37·7	44·8	+ 5·4	38	12	•	•	42·0	+2·7	43·6	+1·4	2	0·31	- 0·03	4·1	—	37	—	Yarmouth.
a Norwich	55	4-6	31	2nd	52·0	38·1	44·8	+ 5·2	36	11	2	25	41·1	•	•	•	4	0·27	—	*4·2*	—	*38*	—	*Norwich.*
p Geldeston	56	4,5	32	2, 8	52·7	38·4	45·3	+ 5·2	38	10	•	•	•	•	•	•	3	0·30	- 0·03	3·9	+ 0·3	35	+ 3	Geldeston.
p Cambridge	56	4-6	31	8th	53·3	38·7	45·8	+ 5·4	40	9	2	25	42·6	+3·0	42·9	+1·0	2	0·22	- 0·10	4·5	+ 1·0	41	+ 9	Cambridge.
p Felixstowe	*56*	*5th*	*33*	*8th*	*51·9*	*39·7*	*45·6*	+ *5·2*	*35*	*6*	•	•	•	•	•	•	*3*	*0·26*	—	*4·4*	—	*40*	—	*Felixstowe.*
a Clacton-on-Sea ..	56	5th	34	8th	50·6	39·3	44·8	+ 4·9	31	8	0	31	43·0	+2·4	44·1	+0·8	3	0·18	—	3·9	—	35	—	Clacton.
b, South .. *a* Rothamsted	57	5th	32	8th	52·7	38·6	45·4	+ 5·8	38	10	•	•	•	•	•	•	4	0·26	- 0·17	4·2	+ 0·9	38	+ 8	Rothamsted.
a Shoeburyness	*56*	*5, 6*	*34*	*8th*	*51·7*	*40·3*	*45·8*	+ *4·7*	*34*	*5*	4	24	43·9	+3·6	•	•	*3*	*0·08*	- *0·19*	*3·8*	—	*34*	—	*Southend.*
p Tottenham	58	6th	35	8th	52·7	42·1	47·2	+ 6·4	36	0	1	29	•	•	43·7	+1·2	2	0·27	—	3·9	—	35	—	Tottenham.
4. MIDLAND COUNTIES.											1	30	40·2	+2·4	40·6	+0·8	—	—	—	*3·8*	—	*35*	—	*Huddersfield.*
a Harrogate	55	4th	32	8th	49·3	36·3	42·6	+ 3·8	28	16	2	26	39·8	+1·7	40·2	+0·8	6	0·85	+ 0·36	4·1	—	37	—	Harrogate.
a Bawtry	57	4th	32	8th	52·6	39·0	45·6	+ 5·3	38	8	3	23	41·6	•	41·4	•	4	0·21	- 0·14	4·8	+ 1·9	44	+18	Worksop.
p Buxton	*51*	*4th*	*31*	*8th*	*46·9*	*36·6*	*41·6*	+ *4·6*	*14*	*21*	3	28	39·3	+2·0	40·9	+0·6	7	*1·03*	+ *0·12*	*3·2*	—	*29*	—	*Buxton.*
a East .. *a* Nottingham	56	4th	32	8th	51·6	38·1	44·7	+ 4·7	35	11	1	26	41·3	+3·7	40·1	+1·0	5	0·30	- 0·05	4·3	—	39	—	Nottingham.
p Birmingham, Edgbsn.	56	4th	33	8th	50·9	38·3	44·4	+ 4·6	32	10	4	24	41·8	+2·5	43·6	+0·7	3	0·27	- 0·14	3·9	—	35	—	Birmingham.
a Raunds	56	5, 6	29	8th	52·7	37·6	44·9	+ 5·1	39	12	2	25	40·9	•	43·4	•	3	0·20	—	•	•	•	•	Raunds.
p Oxford	55	5th	32	8th	52·3	40·4	46·2	+ 5·4	36	4	2	25	•	•	•	•	3	0·24	- 0·10	3·6	+ 0·4	32	+ 4	Oxford.
											1	29	40·7	+3·0	40·9	+0·8	—	—	—	5·2	—	47	—	Sheffield.
a Cheadle	54	6th	31	7th	50·4	37·9	44·0	+ 5·1	31	11	7	22	•	•	•	•	4	0·58	+ 0·08	•	•	•	•	Cheadle.
p Shrewsbury	58	4th	33	8th	53·0	38·7	45·6	+ 4·5	39	9	2	28	•	•	•	•	4	0·30	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	54	4-6	31	8th	51·9	38·6	45·1	+ 4·2	36	10	1	26	•	•	•	•	3	0·38	- 0·03	•	•	•	•	Hereford.
a Cirencester	53	5th	33	8th	49·9	37·1	43·3	+ 3·9	30	14	1	30	42·0	•	42·5	•	5	0·32	- 0·15	4·1	+ 0·7	37	+ 7	Cirencester.
a Bath	57	5th	32	2nd	53·4	39·9	46·5	+ 5·3	40	6	•	•	43·6	+2·8	44·9	+1·5	4	0·30	- 0·18	3·1	—	28	—	Bath.
5. ENGLAND, S.E.											2	28	43·7	+3·9	44·9	+1·9	—	—	—	•	•	•	•	Canterbury
p Kew	57	6th	34	8th	52·0	41·1	46·4	+ 5·5	35	3	2	24	43·2	+3·4	43·8	+1·2	3	0·11	- 0·26	4·2	+ 1·3	38	+12	Kew.
a Marlborough	54	5, 6	30	8th	50·7	38·7	44·5	+ 4·9	31	9	2	22	•	•	45·8	•	3	0·23	- 0·32	•	•	•	•	Marlborough.
a Margate	54	4-6	37	8th	51·6	41·1	46·2	+ 5·4	33	3	0	35	44·3	+4·0	45·1	+3·4	1	0·05	- 0·30	3·0	- 0·5	27	- 4	Margate.
a Wisley, Surrey ..	57	6th	32	8th	51·9	40·3	45·9	+ 4·4	34	5	2	22	43·2	+3·5	43·0	+0·9	3	0·18	—	4·3	—	39	—	Wisley
a Swarraton	56	5th	32	8th	51·3	38·9	44·9	+ 5·1	33	9	1	29	44·5	+3·6	44·8	+1·7	5	0·32	- 0·20	3·9	—	35	—	Worthing.
a Tunbridge Wells ..	55	5th	32	8th	50·0	38·3	44·0	+ 3·9	30	10	2	28	42·4	+3·3	•	•	6	0·36	- 0·14	4·0	+ 0·6	36	+ 6	Tunbridge Wells
a Dungeness	51	5th	32	8th	48·9	41·1	44·9	+ 4·2	24	3	•	•	•	•	•	•	5	0·34	- 0·02	2·7	—	24	—	Littlestone.
p Hastings..	53	5th	34	8th	49·6	41·6	45·5	+ 4·2	26	1	1	30	43·8	•	43·5	•	6	0·49	0·00	2·7	- *1·2*	*24*	*-10*	*Hastings.*
p Southampton	57	5th	32	8th	52·9	41·7	47·1	+ 4·5	37	1	1	25	•	•	•	•	7	0·27	- 0·23	3·7	+ 0·1	33	+ 1	Southampton
a Ventnor	53	5, 6	33	6th	50·4	42·0	46·1	+ 3·4	29	0	•	•	•	•	•	•	7	0·24	- 0·23	3·9	- 0·1	35	- 1	Ventnor.
											0	31	45·4	+3·7	45·3	+1·2	—	—	—	*4·1*	—	*37*	—	*Portsmouth.*
											•	•	45·0	•	45·0	•	—	—	—	3·3	- 0·4	30	- 4	Eastbourne.
LONDON.											•	•	43·9	•	43·6	•	—	—	—	*4·3*	—	*39*	—	*Bournemouth.*
a Westminster	*59*	*6th*	*34*	*8th*	*53·4*	*42·1*	*47·6*	+ *6·4*	*39*	*0*	1	29	•	•	•	•	*3*	*0·18*	- *0·20*	*3·6*	+ *1·7*	*32*	*+16*	*Westminster.*
a Greenwich	*59*	*6th*	*33*	*8th*	*53·3*	*40·7*	*46·8*	+ *5·2*	*39*	*4*	2	28	•	•	•	•	*3*	*0·21*	- *0·17*	*3·9*	+ *1·1*	*35*	*+10*	*Greenwich.*
a Hampstead	*56*	*5, 6*	*31*	*8th*	*51·6*	*39·1*	*45·2*	—	*35*	*8*	2	26	•	•	•	•	*3*	*0·23*	—	*3·7*	—	*33*	—	*Hampstead.*
a Camden Square ..	*59*	*6th*	*32*	*8th*	*53·9*	*40·9*	*47·2*	—	*41*	*3*	1	29	•	•	•	•	*3*	*0·19*	—	*3·7*	—	*33*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	49	4th	32	8th	46·3	36·9	41·5	+ 2·1	12	20	•	•	•	•	•	•	7	2·64	+ 1·81	•	•	•	•	
p Glasgow	51	4th	32	8th	47·0	36·9	41·8	+ 2·2	14	20	1	28	•	•	•	•	7	1·41	+ 0·82	3·2	+ 0·9	29	+ 8	Glasgow.
p Rothesay .. S	52	4th	33	8th	48·3	37·3	42·8	+ 2·1	24	13	•	•	•	•	41·4	-0·5	7	1·88	+ 1·09	•	•	•	•	
a Kilmarnock ..	52	4th	32	8th	48·0	37·9	42·8	+ 3·0	23	11	•	•	•	•	•	•	6	1·21	—	*3·5*	—	*32*	—	*Kilmarnock.*
a Colmonell ..	53	4th	34	5, 8	48·1	37·1	42·4	+ 2·5	23	14	1	30	•	•	•	•	6	1·26	+ 0·46	•	•	•	•	
p Dumfries ..	51	3, 4	33	8th	47·7	36·4	41·9	+ 1·9	16	23	1	27	40·4	•	41·0	•	7	0·69	+ 0·02	*3·4*	—	*31*	—	*Dumfries.*
p Cally, Gatehouse ..	49	3rd	30	8th	47·1	38·1	42·5	+ 2·9	20	11	•	•	•	•	•	•	6	1·17	+ 0·27	•	•	•	•	
b I. OF MAN																								
p Douglas	50	4th	35	8th	47·3	39·0	43·0	+ 2·1	20	8	0	32	•	•	•	•	6	1·47	+ 0·78	5·4	+ 1·8	49	+16	Douglas.
											0	31	40·0	+2·5	40·7	+0·7	—	—	—	*3·1*	—	*28*	—	*Burnley.*
											0	34	•	•	•	•	—	—	—	4·0	—	36	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	49	4th	33	8th	47·3	36·6	41·8	+ 2·8	15	22	1	30	41·7	•	42·8	•	6	1·49	+ 0·85	3·8	—	35	—	Aspatria.
p Newton Rigg	54	4th	32	8th	48·6	35·7	42·0	+ 4·0	18	18	5	25	40·3	+1·8	40·3	+0·6	7	1·36	+ 0·74	4·6	+ 1·5	42	+14	Newton Rigg.
p Stonyhurst	54	4th	35	7, 8	48·1	38·0	42·9	+ 3·6	23	11	1	30	•	•	•	•	7	1·53	+ 0·70	3·3	+ 0·4	30	+ 3	Stonyhurst.
p Blackpool	53	4th	36	8th	48·7	40·1	44·3	+ 4·1	24	5	2	29	42·3	•	43·3	•	6	0·98	+ 0·44	3·9	+ 0·9	36	+ 8	Blackpool.
p Manchester (Whit. Pk.)	56	4th	36	8th	50·7	39·3	44·8	+ 4·1	31	8	2	28	•	•	•	•	7	0·74	+ 0·30	*2·6*	+ *0·7*	*24*	+ *6*	*Whit. Park.*
a Liverpool (Bidston) ..	54	4th	35	2nd	50·0	39·7	44·7	+ 3·3	29	6	•	•	•	•	•	•	6	0·49	+ 0·06	*4·2*	—	*38*	—	*Liverpool.*
a Hawarden Bridge ..	56	4th	35	2nd	52·7	39·0	45·7	+ 4·2	39	8	0	33	41·7	+3·0	41·5	+1·1	6	0·61	+ 0·26	*4·3*	+ *1·2*	*39*	*+11*	*Southport.*
											0	32	41·0	+2·8	42 2	+0·6	—	—	—	*2·5*	—	*23*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	54	4th	37	3, 8	50·4	40·1	45·1	+ 3·0	30	5	•	•	•	•	•	•	7	0·76	+ 0·26	4·1	+ 0·9	37	+ 8	Llandudno.
a Holyhead	50	3-5	38	6th	47·4	41·1	44·2	+ 2·1	19	3	•	•	•	•	•	•	6	0·64	+ 0·06	3·9	—	36	—	Aberdovey.
p Bettws-y-Coed ..	52	5th	34	8th	50·1	39·0	44·4	+ 2·8	29	8	0	33	42·6	+2·9	43·3	+0·7	7	3·22	—	3·4	—	31	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·3	—	30	—	
a Llangammarch Wells	52	6th	32	8th	48·7	39·3	43·9	+ 4·5	25	8	1	26	42·0	+2·6	43·0	+0·2	7	1·51	—	2·7	—	24	—	Aberystwyth.
a Pembroke	50	2-5	37	8th	48·7	42·4	45·5	+ 3·2	25	0	•	•	•	•	•	•	6	0·44	- 0·11	3·6	- 0·1	32	- 1	Llangammarch
p Cardiff	55	6th	32	8th	51·1	39·3	45·0	+ 3·4	32	8	1	25	42·9	+3·2	43·1	+0·7	5	0·53	- 0·17	4·2	—	38	—	Pembroke.[Wells
																								Cardiff.
b, ENGLAND, S.W.																								
a Clifton	55	4, 6	34	8th	52·1	40·6	46·2	+ 4·9	35	4	1	29	•	•	•	•	6	0·38	+ 0·15	3·9	—	35	—	*Clifton.*
a Shaftesbury	53	5, 6	30	8th	48·9	37·4	43·0	+ 3·5	26	13	•	•	42·9	•	43·2	•	4	0·26	- 0·27	•	•	•	•	Shaftesbury.
a Arlington	52	4, 5	34	8th	49·3	39·1	44·1	+ 3·9	27	8	•	•	•	•	•	•	3	0·31	- 0·58	•	•	•	•	Arlington.
a Newquay	*54*	*6th*	*39*	*4th*	*51·0*	*43·3*	*47·0*	+ *3·3*	*35*	*0*	•	•	46·0	•	•	•	*6*	*0·26*	- *0·30*	3·6	- 0·2	32	- 2	Newquay.
a Cullompton	57	6th	32	8th	53·0	40·3	46·5	+ 4·8	39	5	2	27	44·6	•	•	•	4	0·27	- 0·32	4·0	+ 0·6	36	+ 6	Cullompton.
a Portland	51	3, 5	39	8th	49·4	44·1	46·7	+ 4·3	33	0	•	•	•	•	•	•	5	0·26	—	4·3	—	39	—	*Weymouth.*
p Plymouth	54	5th	36	8th	51·8	43·0	47·3	+ 4·3	37	0	1	26	45·3	+3·2	•	•	6	0·31	- 0·31	3·8	+ 0·1	34	+ 1	Plymouth.
p Falmouth	53	5, 6	40	7, 8	50·4	42·9	46·5	+ 2·8	32	0	•	•	•	•	•	•	6	0·42	- 0·35	3·9	- 0·1	35	- 1	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	51	4th	34	7th	46·4	38·3	42·2	+ 0·9	17	10	•	•	•	•	•	•	7	0·92	+ 0·41	•	•	•	•	• •
a Blacksod Point ..	53	4th	35	7th	48·6	39·0	43·7	+ 0·7	25	8	•	•	•	•	•	•	7	2·06	+ 1·18	•	•	•	•	• •
p Markree Castle ..	58	4, 5	33	6, 7, 8	51·1	36·3	43·5	+ 2·6	34	16	2	27	42·9	•	44·0	•	6	1·64	+ 0·91	3·2	+ 0·2	29	+ 2	Markree Castle.
a Birr Castle	55	4th	31	8th	50·4	36·7	43·4	+ 2·3	32	15	•	•	•	•	•	•	7	1·47	+ 0·96	*4·0*	*+ 0·9*	*36*	*+ 8*	*Birr Castle.*
b, East .. *p* Armagh	55	4th	31	8th	49·0	35·9	42·3	+ 1·6	28	17	2	28	42·3	+1·5	43·4	+0·4	6	0·91	+ 0·41	3·6	+ 0·7	33	+ 6	Armagh.
a Donaghadee	56	4th	34	8th	49·1	38·4	43·6	+ 2·0	26	10	•	•	•	•	•	•	6	0·84	+ 0·31	•	•	•	•	• •
											1	29	43·7	+2·1	44·4	+0·1	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											2	24	•	•	•	•	—	—	—	4·4	+ 0·9	40	+ 8	Phœnix Park.
a, East .. *p* Dublin, City	57	4th	33	8th	50·7	38·9	44·6	+ 1·7	31	9	1	30	•	•	•	•	7	0·96	+ 0·52	•	•	•	•	Dublin City.
a Kilkenny	55	4th	30	8th	51·1	37·1	43·9	+ 2·3	34	14	•	•	•	•	•	•	7	0·91	+ 0·37	•	•	•	•	• •
a Waterford	54	4th	33	8th	50·3	39·0	44·5	+ 2·2	30	8	•	•	•	•	•	•	7	0·87	+ 0·18	•	•	•	•	• •
a Birr Castle	55	4th	31	8th	50·4	36·7	43·4	+ 2·3	32	15	•	•	•	•	•	•	7	1·47	+ 0·96	4·0	+ 0·9	36	+ 8	Birr Castle.
a Foynes	54	3, 4	34	7th	50·6	38·0	44·1	+ 1·0	32	11	•	•	•	•	•	•	7	1·68	+ 1·02	•	•	•	•	• •
b, West .. *a* Cahir	54	4th	32	7th	50·6	37·7	44·0	+ 1·9	32	12	•	•	•	•	•	•	7	0·99	—	•	•	•	•	• •
a Killarney	56	4th	35	8th	51·3	39·6	45·3	+ 2·1	33	7	•	•	•	•	•	•	7	1·99	+ 0·87	•	•	•	•	• •
a Valencia	53	2, 4	36	7th	50·4	40·3	45·2	+ 0·6	30	5	•	•	•	•	•	•	7	1·87	+ 0·81	2·3	- 1·2	21	-11	Valencia.
a Roche's Point	52	4th	34	7th	50·1	39·7	44·8	+ 0·9	29	6	•	•	•	•	•	•	7	1·04	+ 0·37	3·4	•	31	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	53	3-6	40	8th	51·7	44·1	47·8	+ 2·4	41	0	•	•	•	•	•	•	5	0·19	- 0·38	3·7	- 0·3	33	- 3	Scilly.
a Jersey, St. Aubins ..	56	3, 4	40	8th	52·6	44·6	48·5	+ 4·6	46	0	•	•	•	•	•	•	5	0·97	+ 0·45	3·4	- 0·8	31	- 8	St. Heliers.
a Guernsey (Villa Carey)	55	5th	39	8th	52·7	45·3	48·9	+ 4·5	48	0	0	33	46·7	+3·3	46·2	+1·2	5	1·18	+ 0·59	3·7	- 0·5	33	- 4	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·9 hrs. 35 %; Ramsgate, 3·0 hrs. 27 %; Rhyl, 4·1 hrs. 37 %; Salcombe, 4·1 hrs. 37 %; Tenby, 3·6 hrs. (−0·3) 32 % (− 3 %); Torquay, 3·9 hrs. (+1·4) 35 % (0 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, March 8th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	43	42	42·3	+0·2	SCOTLAND, W. ..	Lamlash	45	42	43·6	+0·1
	Kirkwall	43	40	42·0	+1·6		Ballantrae	44	43	43·4	+0·6
	Wick	44	41	43·3	+0·5	ENGLAND, N.W. ..	Port Erin	46	44	45·1	+1·4
SCOTLAND, E. ..	Cromarty	42	39	40·4	+1·0		Newquay	47	46	46·2	+0·1
	Pennan Bay	42	40	41·1	+1·2	ENGLAND, S.W. ..	Scilly	49	49	49·0	—
	Aberdeen, Cove Bay	41	41	41·0	+0·6		Plymouth‡	48	47	47·6	+1·7
ENGLAND, N.E. ..	Burnmouth, Berwick	39	38	38·7	-0·6		Salcombe	50	45	47·8	+2·8
	Scarborough	44	41	42·3	+2·0	IRELAND, N.W. ..	Sheephaven	46	44	45·0	+0·2
ENGLAND, E. ..	Shipwash Lightship	46	42	44·1	+3·9		Teelin	46	42	44·4	-0·3
	Margate‡	45	42	43·6	+2·6	IRELAND, S.W. ..	Cleggan	47	45	46·0	+1·7
ENGLAND, S.E. ..	Eastbourne‡	45	41	42·6	+1·2	IRELAND, E.	Seafield	54	46	50·2	+4·5
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TENTH WEEK—March 2nd to March 8th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	54	29	45·2	34·9	39·9	+ 1·8	9	+ 2	26	− 9	7	+ 2	2·08	+1·05	3·2	+0·6	29	+ 5
Eastern.																		
1. SCOTLAND, EAST ...	55	18	46·6	33·8	40·0	+ 2·0	13	+ 3	31	− 7	6	+ 2	0·99	+0·45	5·0	+1·9	46	+17
2. ENGLAND, N.E.	57	30	50·5	37·4	43·8	+ 4·3	32	+ 18	13	−18	5	+ 1	0·32	−0·10	4·9	+1·4	44	+13
3. ENGLAND, EAST ...	58	31	52·1	38·8	45·3	+ 5·7	37	+ 20	9	−24	3	0	0·24	−0·10	4·1	+0·6	37	+ 6
4. MIDLAND COUNTIES ...	58	29	51·6	38·4	44·8	+ 5·1	35	+ 17	10	−23	4	+ 1	0·36	−0·06	4·1	+1·1	37	+10
5. ENGLAND, S.E.	57	30	50·9	40·5	45·6	+ 4·8	32	+ 13	4	−22	5	+ 2	0·26	−0·19	3·7	+0·3	33	+ 3
Western.																		
6. SCOTLAND, WEST ...	53	30	47·5	37·5	42·3	+ 2·7	21	+ 10	13	−16	7	+ 3	1·47	+0·64	4·3	+1·3	39	+12
7. ENGLAND, N.W.	56	32	49·4	38·9	44·0	+ 3·9	27	+ 14	9	−17	7	+ 3	1·18	+0·62	3·9	+0·9	35	+ 8
8. ENGLAND, S.W.	57	30	50·3	40·8	45·5	+ 4·0	30	+ 10	3	−19	5	+ 1	0·50	−0·17	3·6	+0·2	32	+ 2
9. IRELAND, NORTH ...	58	31	49·1	37·4	43·1	+ 2·2	27	+ 10	13	−11	7	+ 3	1·31	+0·70	3·4	+0·5	31	+ 4
10. IRELAND, SOUTH ...	57	30	50·6	38·6	44·4	+ 1·8	31	+ 8	10	− 9	7	+ 3	1·31	+0·62	3·5	+0·1	32	+ 1
11. ENGLISH CHANNEL ...	56	39	52·3	44·7	48·4	+ 4·2	45	+ 20	0	− 9	5	+ 1	0·78	+0·20	3·6	−0·6	32	− 5

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 1 Week, March 2nd, 1913, to March 8th, 1913.

0. SCOTLAND, NORTH ...	54	29	*	*	*	*	9	+ 2	26	− 9	7	+ 2	2·08	+ 1·05	3·2	+0·6	29	+ 5
Eastern.																		
1. SCOTLAND, EAST ...	55	18	*	*	*	*	13	+ 3	31	− 7	6	+ 2	0·99	+ 0·45	5·0	+1·9	46	+17
2. ENGLAND, N.E.	57	30	*	*	*	*	32	+ 18	13	− 18	5	+ 1	0·32	− 0·10	4·9	+1·4	44	+13
3 ENGLAND, EAST ...	58	31	*	*	*	*	37	+ 20	9	− 24	3	0	0·24	− 0·10	4·1	+0·6	37	+ 6
4. MIDLAND COUNTIES ...	58	29	*	*	*	*	35	+ 17	10	− 23	4	+ 1	0·36	− 0·06	4·1	+1·1	37	+10
5. ENGLAND, S.E.	57	30	*	*	*	*	32	+ 13	4	− 22	5	+ 2	0·26	− 0·19	3·7	+0·3	33	+ 3
Western.																		
6. SCOTLAND, WEST ...	53	30	*	*	*	*	21	+ 10	13	− 16	7	+ 3	1·47	+ 0·64	4·3	+1·3	39	+12
7. ENGLAND, N.W.	56	32	*	*	*	*	27	+ 14	9	− 17	7	+ 3	1·18	+ 0·62	3·9	+0·9	35	+ 8
8. ENGLAND, S.W.	57	30	*	*	*	*	30	+ 10	3	− 19	5	+ 1	0·50	− 0·17	3·6	+0·2	32	+ 2
9. IRELAND, NORTH ...	58	31	*	*	*	*	27	+ 10	13	− 9	7	+ 3	1·31	+ 0·70	3·4	+0·5	31	+ 4
10. IRELAND, SOUTH ...	57	30	*	*	*	*	31	+ 8	10	− 9	7	+ 3	1·31	+ 0·62	3·5	+0·1	32	+ 1
11. ENGLISH CHANNEL ...	56	39	*	*	*	*	45	+ 20	0	− 9	5	+ 1	0·78	+ 0·20	3·6	−0·6	32	− 5

THE YEAR.—Aggregates, &c., for the Period of 10 Weeks, December 31st, 1912, to March 8th, 1913.

0. SCOTLAND, NORTH ...	54	22	*	*	*	*	77	+ 10	252	−113	50	− 1	11·36	−0·63	1·1	−0·4	14	− 5
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	67	− 11	373	− 42	43	+ 4	5·85	+0·32	1·5	−0·6	18	− 6
2. ENGLAND, N.E.	57	18	*	*	*	*	113	+ 19	271	− 61	410	+ 3	4·20	+0·39	1·7	−0·4	19	− 5
3. ENGLAND, EAST ...	58	20	*	*	*	*	144	+ 37	218	−154	36	− 1	3·79	+0·08	2·1	−0·2	23	− 2
4. MIDLAND COUNTIES ...	58	13	*	*	*	*	146	+ 24	272	− 97	38	+ 2	5·15	+0·55	1·6	−0·4	18	− 4
5. ENGLAND, S.E.	57	22	*	*	*	*	171	+ 34	166	−119	35	0	5·22	+0·31	2·2	−0·1	24	0
Western.																		
6. SCOTLAND, WEST ...	54	17	*	*	*	*	121	+ 21	206	− 85	45	+ 1	10·41	+0·73	1·3	−0·5	15	− 5
7. ENGLAND, N.W.	58	10	*	*	*	*	134	+ 27	202	− 75	42	+ 2	7·06	+0·83	1·7	−0·2	19	− 2
8. ENGLAND, S.W.	57	19	*	*	*	*	193	+ 22	155	− 66	46	+ 6	9·01	+1·34	2·1	−0·2	23	− 2
9. IRELAND, NORTH ...	58	21	*	*	*	*	178	+ 36	174	− 67	49	+ 3	8·59	+1·45	1·6	−0·4	18	− 5
10. IRELAND, SOUTH ...	58	22	*	*	*	*	230	+ 21	155	− 29	51	+ 9	11·10	+2·86	1·7	−0·6	19	− 6
11. ENGLISH CHANNEL ...	60	32	*	*	*	*	310	+ 66	36	− 52	45	0	7·50	+1·01	2·5	−0·3	27	− 4

M.O., March 12, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.: or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH: or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 11. ELEVENTH WEEK, SUNDAY, MARCH 9TH, TO SATURDAY, MARCH 15TH, 1913.

Price 6*d.*
Annual Subscription Post Paid £1 10*s.* 0*d.*

I.—General Remarks.

Weather. The conditions were upon the whole very unsettled, but fair dry intervals were not infrequent over England. Sleet and snow showers occurred over a wide area on the 14th and 15th, and were accompanied in many localities by thunder and lightning.

Temperature was above the average except in Ireland and in Scotland N., the excess being as much as 3° in England East. In Scotland East and West the excess was less than 0°·5. The highest of the maxima were mainly recorded about the middle of the week, and ranged from 57° in the English Channel to 52° in Ireland North, and to 51° in Scotland West. The lowest of the minima, which were registered on rather irregular dates, varied from 24° in England South-West and 25° in England East, the Midland Counties and Scotland E., to 30° in Scotland North, and to 37° in the English Channel. The lowest grass readings were 16° at Fulbeck and Wisley, 17° at Birmingham and Blackpool, and 19° at West Linton and Plymouth. At all stations the temperature of the soil, both at 1 foot and 4 feet, was above the normal.

Mean Temperature of the Sea. At Scilly and on the south-west coast of Ireland the water was warmer than during the corresponding week of last year; in all other places it was colder. As a whole, however, the temperature of the water was above the normal.

Rainfall was more than the average over the Kingdom generally, but only just equal to it in England East, and less in the English Channel. At Llangammarch Wells on the 15th there was as much as 1·2 in.

Bright Sunshine was less than the normal except in Scotland East and England North-West. The percentage of the possible duration ranged from 36 in Scotland East, and 33 in England North-East to 19 in Ireland South, and England South-West, and to 17 in Ireland North, where the mean daily amount was only 2 hours. In Scotland East the daily mean amounted to 4·1 hours.

Barometer and Wind. The pressure distribution over the United Kingdom and its neighbourhood was of a Westerly type, and the gradient moderate to rather steep. No depressions, except some small secondaries, came directly over these Islands, and the Westerly to South-Westerly wind seldom rose to the force of a gale except on the extreme north-west and north coasts. On Friday, however, and also on Saturday a gale was experienced on the southern and south-eastern coasts of England, and also on the English Channel.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 43.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual
	Rainfall ...	Heavy	Moderate	Moderate	Moderate	Heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Moderate	Moderate
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 2 weeks from March 2nd, 1913.	Warmth ...	0 * 0	0 * 0	1 * 0	2 * 0	2 * 0	2 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	2 * 0
	Rainfall ...	2 * 0	1 * 0	0 * 1	0 * 0	1 * 0	0 * 0	2 * 0	2 * 0	1 * 0	2 * 0	1 * 0	1 * 0
	Sunshine ...	1 * 0	1 * 0	1 * 0	0 * 0	1 * 0	0 * 0	1 * 1	1 * 0	0 * 1	0 * 1	0 * 1	0 * 1

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 5
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(29099—24.) Wt. 173—804. 450. 3/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*48*	*9th*	*30*	*15th*	*42·9*	*34·3*	*38·5*	—	*3*	*27*	•	•	38·0	•	•	•	*7*	*2·06*	—	*2·2*	—	*20*	—	*Baltasound.*
a Lerwick	47	9th	32	9, 13	43·3	33·9	38·5	+ 0·1	4	29	•	•	•	•	•	•	7	2·08	—	2·6	- 0·6	23	- 5	Deerness.
a Stornoway	51	9th	32	13, 15	44·0	34·9	39·3	- 0·1	6	25	•	•	•	•	•	•	7	2·36	+ 1·43	2·5	- 0·7	22	- 6	Stornoway.
a Castlebay, Barra Isd.	*50*	*9th*	*31*	*15th*	*45·4*	*35·9*	*40·5*	- *1·7*	*10*	*23*							*7*	*0·90*	—	*2·4*	—	*21*	—	*Castlebay.*
a Wick	52	9th	31	9, 14, 15	44·4	32·4	38·2	- 1·1	7	34	•	•	•	•	•	•	5	0·41	- 0·09	•	•	•	•	•
p Strathpeffer ..	55	9th	30	15th	48·0	34·6	41·1	+ 2·5	17	29	•	•	•	•	•	•	7	1·02	+ 0·42	2·8	0·0	25	0	Strathpeffer.
p Glencarron ..	48	9th †	30	13, 14, 15	40·7	32·7	36·6	- 1·4	0	38	•	•	•	•	•	•	7	3·03	+ 1·26	•	•	•	•	•
p Fort Augustus..	49	9th	30	13th	44·0	33·9	38·8	- 0·2	6	29	•	•	•	•	•	•	7	2·36	+ 1·53	1·8	- 0·6	16	- 5	Fort Augustus.
p Fort William ..	49	9th	31	13th	44·7	34·9	39·7	- 0·5	8	26	•	•	•	•	•	•	7	3·47	+ 1·95	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle.. S	55	9th	31	13th	46·9	34·9	40·7	+ 0·7	14	27	4	23	38·2	+0·8	39·2	+1·0	—	—	—	5·0	—	44	—	Crathes S.
a Nairn	53	9th	31	9, 13, 15	45·1	32·6	38·7	- 0·6	9	34	•	•	•	•	•	•	5	0·36	- 0·15	*4·8*	—	*42*	—	*Gordon Castle.*
a Aberdeen ..	52	9th	31	9th	47·7	34·6	41·0	+ 1·2	16	29	•	•	•	•	40·2	+0·8	7	0·54	+ 0·14	4·1	—	36	—	Nairn.
a Balmoral ..	49	9, 10	25	13th	46·0	30·4	38·0	+ 2·5	11	42	7	20	•	•	•	•	3	0·14	- 0·39	4·6	+ 0·9	40	+ 8	Aberdeen.
p Crieff	49	10th	28	13th	44·7	32·6	38·5	- 1·3	8	34	•	•	•	•	•	•	5	0·72	+ 0·08	•	•	•	•	Balmoral.
a Leith	52	9th	33	9th	47·9	36·1	41·8	+ 0·6	17	23	•	•	•	•	•	•	6	1·30	+ 0·61	3·5	—	31	—	Balruddery.
p West Linton ..	48	9th	26	13th	44·4	32·0	38·0	+ 0·2	7	35	6	19	•	•	•	•	5	0·21	- 0·14	•	•	•	•	•
p Marchmont .. S	48	9, 10, 14	28	13th	46·0	35·3	40·5	+ 1·9	11	25	4	24	38·0	+0·5	•	•	7	1·03	—	*2·5*	—	*22*	—	*West Linton.*
																	6	0·84	+ 0·29	3·4	0·0	30	0	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	50	9th	31	13th	47·6	35·1	41·2	+ 1·4	16	27	5	24	38·4	+1·2	40·5	+1·3	5	0·40	- 0·15	4·8	—	42	—	Cockle Park.
a Shields	51	9th	30	13th	48·3	33·7	40·8	+ 0·5	18	32	•	•	•	•	•	•	4	0·44	+ 0·02	•	•	•	•	•
p Durham	49	10, 11, 12	29	13th	47·3	34·1	40·5	+ 0·7	15	30	5	20	•	•	•	•	3	0·38	0·00	3·6	+ 0·1	31	+ 1	Durham.
a, North .. *p* Rounton	51	11th	26	13th	48·3	32·3	40·1	+ 0·7	18	37	6	22	40·2	•	•	•	5	0·51	+ 0·10	•	•	•	•	Rounton.
a West Witton ..	*48*	*10, 12*	*30*	*13th*	*45·7*	*34·6*	*40·0*	—	*10*	*27*	*4*	*26*	39·6	•	39·8	•	*5*	*1·69*	—	•	•	•	•	*West Witton.*
p Scarborough ..	55	11th	34	15th	49·2	37·3	43·1	+ 2·2	27	13	•	•	•	•	42·5†	•	5	0·28	- 0·13	4·2	—	36	—	Scarborough.
p York	52	11, 12	30	12th	49·7	36·9	43·1	+ 2·3	29	14	•	•	41·6	+2·4	42·0	+1·4	5	0·44	+ 0·08	3·8	+ 0·7	33	+ 6	York.
											4	21	41·7	+2·7	42·0	+1·1	—	—	—	*2·9*	—	*25*	—	*Hull.*
b South .. *a* Spurn Head ..	51	12th	35	12, 13, 15	47·3	37·0	42·0	+ 1·3	15	14	•	•	•	•	•	•	5	0·64	+ 0·34	*3·5*	—	*30*	—	*Spurn Head.*
a Lincoln	54	12th	30	12th	49·7	37·3	43·3	+ 2·2	29	13	•	•	40·3	+2·2	41·2	+1·2	4	0·62	+ 0·27	•	•	•	•	Lincoln.
a Fulbeck	54	12th	30	12th	49·3	36·6	42·8	+ 1·8	28	15	4	16	42·4	+2·2	43·0	+1·0	4	0·80	+ 0·45	3·7	—	32	—	Rauceby.
											•	•	•	•	•	•	—	—	—	3·2	—	28	—	Skegness.
3. ENGLAND, E.											2	24	42·7	+2·8	43·3	+2·1	—	—	—	*4·2*	—	*36*	—	*Lowestoft.*
p Cromer	55	11th	33	9, 12	51·0	36·6	43·6	+ 3·4	34	15	•	•	•	•	•	•	4	0·26	—	3·8	—	33	—	Cromer.
p Little Massingham ..	56	12th	30	12th	50·4	36·1	43·0	+ 2·4	32	17	4	21	•	•	•	•	4	0·46	+ 0·04	3·2	- 0·5	28	- 3	Lit. Massingham
a, North .. *a* Yarmouth ..	55	11th	32	9th	50·1	36·3	43·0	+ 3·1	31	16	•	•	42·6	+2·6	44·3	+1·8	2	0·17	- 0·16	3·9	—	34	—	Yarmouth.
a Norwich	55	11th	28	12th	51·4	37·6	44·3	+ 3·9	35	12	4	21	41·8	•	•	•	4	0·38	—	*3·4*	—	*29*	—	*Norwich.*
p Geldeston	53	14th	27	12th	50·7	37·3	43·8	+ 3·0	32	13	•	•	•	•	•	•	3	0·18	- 0·17	3·3	- 0·6	28	- 5	Geldeston.
p Cambridge	56	11th	26	12th	52·3	37·0	44·4	+ 3·1	38	14	4	20	42·9	+2·4	43·9	+1·7	4	0·35	+ 0·03	3·6	- 0·2	31	- 2	Cambridge.
a Felixstowe ..	*54*	*11th*	*32*	*12th*	*50·3*	*38·1*	*44·0*	+ *3·0*	*30*	*11*	•	•	•	•	•	•	*5*	*0·26*	—	*4·7*	—	*41*	—	*Felixstowe.*
a Clacton-on-Sea ..	54	11th	34	9th	49·9	38·0	43·8	+ 3·3	29	11	2	28	43·8	+2·6	44·9	+1·3	4	0·33	—	4·6	—	40	—	Clacton.
b, South .. *a* Rothamsted ..	54	11th	25	12th	51·3	36·6	43·7	+ 3·4	35	15	•	•	•	•	•	•	5	0·40	- 0·02	3·2	- 0·4	28	- 4	Rothamsted.
a Shoeburyness ..	*53*	*11, 14*	*30*	*12th*	*51·0*	*39·6*	*45·1*	+ *3·1*	*32*	*7*	4	20	44·7	+3·9	•	•	*4*	*0·36*	+ *0·10*	*3·9*	—	*34*	—	*Southend.*
p Tottenham	55	11th	31	12th	51·4	39·6	45·3	+ 3·8	33	7	3	25	•	•	44·6	+1·9	3	0·40	—	2·6	—	22	—	Tottenham.
4. MIDLAND COUNTIES.											2	25	40·9	+3·1	41·2	+1·4	—	—	—	*4·0*	—	*35*	—	*Huddersfield.*
a Harrogate	50	12th	30	13th	47·0	35·0	40·8	+ 1·5	14	27	4	22	40·2	+1·7	41·0	+1·4	5	0·79	+ 0·31	3·4	—	29	—	Harrogate.
a Bawtry	53	11, 12	28	11th	49·6	36·7	43·0	+ 1·8	29	15	4	20	41·7	•	42·3	•	3	0·70	+ 0·36	3·1	0·0	27	0	Worksop.
p Buxton	*49*	*12th*	*29*	*12th*	*46·1*	*35·0*	*40·4*	+ *2·8*	*11*	*26*	4	22	40·2	+2·7	41·3	+1·0	*5*	*1·82*	+ *0·89*	*3·2*	—	*28*	—	*Buxton.*
a East .. *a* Nottingham	54	11, 12	29	12th	49·9	35·7	42·6	+ 1·8	31	18	3	22	41·4	+3·1	41·2	+2·0	4	1·08	+ 0·73	3·5	—	30	—	Nottingham.
p Birmingham, Edgbsn.	54	11th	32	15th	49·0	36·7	42·7	+ 2·4	27	15	4	17	42·2	+2·7	44·0	+1·3	4	1·49	+ 1·09	2·5	—	22	—	Birmingham.
a Raunds	56	11th	26	12th	52·1	35·0	43·3	+ 2·9	39	20	4	20	41·6	•	43·4	•	4	0·38	—	•	•	•	•	Raunds.
p Oxford	56	11th	29	12th	51·9	38·4	44·5	+ 3·0	33	10	3	23	•	•	•	•	3	0·49	+ 0·17	2·7	- 0·8	23	- 7	Oxford.
											2	24	41·0	+2·8	41·5	+1·4	—	—	—	2·9	—	25	—	Sheffield.
a Cheadle	51	12th	30	14, 15	47·1	36·1	41·4	+ 1·9	14	23	4	23	•	•	•	•	4	1·34	+ 0·84	•	•	•	•	Cheadle.
p Shrewsbury ..	54	11, 12	28	12th	51·0	38·0	44·3	+ 2·5	33	11	3	21	•	•	•	•	3	1·06	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	55	11th	27	12th	50·7	37·7	44·0	+ 2·5	32	12	1	22	•	•	•	•	3	0·88	+ 0·49	•	•	•	•	Hereford.
a Cirencester ..	55	14th	25	12th	50·4	34·3	42·1	+ 2·1	33	22	3	27	42·4	•	43·3	•	5	0·86	+ 0·40	2·5	- 1·1	22	-10	Cirencester.
a Bath	55	11th	27	12th	51·4	35·7	43·3	+ 1·5	36	18	•	•	43·7	+2·0	45·6	+2·1	6	0·64	+ 0·17	1·9	—	16	—	Bath.
5. ENGLAND, S.E.											2	24	45·0	+4·7	45·5	+2·2	—	—	—	•	•	•	•	Canterbury
p Kew	54	11th	30	12th	51·4	39·0	45·0	+ 3·4	34	8	3	21	43·4	+2·9	44·7	+1·8	4	0·46	+ 0·10	2·8	- 0·4	24	- 4	Kew.
a Marlborough ..	53	11th	26	12th	49·1	35·9	42·3	+ 2·2	28	17	3	20	•	•	46·2	•	5	0·74	+ 0·20	•	•	•	•	Marlborough.
a Margate	54	11th	33	9th	51·4	39·9	45·5	+ 4·1	33	6	0	31	44·7	+4·0	45·9	+4·0	4	0·15	- 0·19	4·6	+ 0·8	40	+ 7	Margate.
a Wisley, Surrey ..	56	13th	28	12th	51·6	36·1	43·6	+ 1·4	36	17	4	16	43·2	+2·8	44·0	+1·7	4	0·41	—	3·0	—	26	—	Wisley
a Swarraton ..	54	11, 13	29	12, 13	50·3	35·3	42·6	+ 2·2	32	19	1	28	44·9	+3·5	45·6	+2·3	4	0·65	+ 0·15	3·6	—	31	—	Worthing.
a Tunbridge Wells ..	56	13th	31	9th	50·6	37·0	43·6	+ 2·4	32	14	4	22	42·7	+3·1	•	•	3	0·38	- 0·12	3·7	0·0	32	- 3	Tunbridge Wells
a Dungeness	51	11, 13, 14	31	9th	49·7	39·1	44·2	+ 2·7	28	8	•	•	•	•	•	•	2	0·38	+ 0·02	3·9	—	34	—	Littlestone.
p Hastings.. ..	52	11th	35	9th	49·9	42·1	45·9	+ 4·0	27	0	1	30	44·6	•	44·7	•	3	0·50	+ 0·02	*3·1*	- *1·2*	*27*	*-10*	*Hastings.*
p Southampton	55	11th	32	12th	51·6	39·6	45·4	+ 2·1	34	7	2	24	•	•	•	•	3	0·64	+ 0·15	2·3	- 1·6	20	-14	Southampton
a Ventnor	54	13th	38	9th	50·6	42·3	46·3	+ 3·0	30	0	2	26	•	•	•	•	3	0·31	- 0·15	3·1	- 1·3	27	-12	Ventnor.
											2	30	45·3	+3·0	46·1	+1·7	—	—	—	*2·9*	—	*25*	—	*Portsmouth.*
											•	•	45·1	•	45·9	•	—	—	—	3·3	- 0·9	28	- 8	Eastbourne.
											•	•	43·7	•	44·6	•	—	—	—	*2·5*	•	*22*	—	*Bournemouth.*
LONDON.											0	31	•	•	44·6	•	—	—	—	*3·5*	•	*30*	•	*Brighton.*
a Westminster	*55*	*11th*	*34*	*9th*	*52·1*	*38·6*	*45·2*	+ *3·3*	*37*	*10*	3	29	•	•	•	•	*4*	*0·42*	+ *0·04*	*2·2*	+ *0·1*	*19*	+ *1*	*Westminster.*
a Greenwich	*56*	*11, 13*	*29*	*12th*	*53·0*	*37·3*	*44·9*	+ *2·1*	*40*	*13*	3	20	•	•	•	•	*4*	*0·52*	+ *0·15*	*3·3*	+ *0·2*	*28*	+ *2*	*Greenwich.*
a Hampstead	*53*	*13th*	*32*	*9th*	*49·9*	*37·7*	*43·6*	—	*29*	*12*	4	24	•	•	•	•	*4*	*0·47*	—	*2·6?*	—	*?17*	—	*Hampstead.*
a Camden Square ..	*56*	*11th*	*30*	*12th*	*52·6*	*37·6*	*44·9*	—	*39*	*12*	2	29	•	•	•	•	*4*	*0·48*	—	*2·4*	—	*21*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	48	9th	31	13th	44·1	35·3	39·6	- 0·7	6	24	•	•	•	•	•	•	7	2·36	+ 1·56	•	•	•	•	•
p Glasgow	48	9, 10	33	13, 15	45·4	37·0	41·1	+ 1·1	10	19	1	25	•	•	•	•	7	0·91	+ 0·35	1·4	- 1·2	12	-10	Glasgow.
p Rothesay ..	51	9th	33	15th	47·1	36·9	41·9	+ 1·0	14	21	•	•	•	•	42·4	+0·6	7	1·48	+ 0·73	•	•	•	•	•
a Kilmarnock ..	49	12, 14	30	13th	46·9	35·1	40·8	+ 0·6	14	26	•	•	•	•	•	•	7	0·96	—	*1·8*	—	*16*	—	*Kilmarnock.*
a Colmonell ..	49	9th	29	13th	46·3	35·6	40·8	- 0·4	12	24	2	25	•	•	•	•	7	0·47	- 0·29	•	•	•	•	•
p Dumfries	49	9, 10	30	13th	46·7	36·1	41·2	+ 0·7	13	23	4	25	40·1	•	41·7	•	7	1·12	+ 0·47	*2·3*	—	*20*	—	*Dumfries.*
p Cally, Gatehouse	48	10, 11, 14	26	13th	46·9	34·4	40·5	+ 0·3	14	29	•	•	•	•	•	•	7	1·27	+ 0·40	•	•	•	•	•
b I. OF MAN																								
p Douglas	48	9, 10	32	13th	46·9	37·4	42·0	+ 0·6	14	13	2	27	•	•	•	•	7	0·69	+ 0·03	2·7	- 1·4	23	-12	Douglas.
											2	23	40·6	+2·8	41·3	+1·2	—	—	—	*3·6*	—	*31*	—	*Burnley.*
											2	28	•	•	•	•	—	—	—	3·1	—	*27*	—	Hoylake.
7. *a*, ENGLAND, N.W.											2	22	41·4	•	43·1	•	7	1·51	+ 0·85	2·3	—	20	—	Aspatria.
p Aspatria	47	9-12, 14	30	13th	46·1	36·0	40·9	+ 1·3	11	23	6	24	40·7	+1·7	40·9	+1·1	7	1·66	+ 0·97	2·9	- 0·5	25	- 4	Newton Rigg.
p Newton Rigg ..	48	9, 10	28	13th	46·0	34·4	40·0	+ 1·2	11	28	4	24	•	•	•	•	7	2·61	+ 1·80	3·4	+ 0·1	29	+ 1	Stonyhurst.
p Stonyhurst	49	13th	32	13th	46·7	36·1	41·2	+ 1·4	13	23	3	17	42·8	•	43·9	•	5	0·77	+ 0·23	4·0	+ 0·7	35	+ 6	Blackpool.
p Blackpool	50	12, 13	31	13th	47·9	37·7	42·7	+ 2·0	23	12	4	22	•	•	•	•	5	0·95	+ 0·59	*3·2*	+ *1·1*	*28*	+ *9*	*Whit. Park.*
p Manchester (Whit. Pk.)	52	12th	32	12th	48·6	37·3	42·8	+ 1·5	25	13	•	•	•	•	•	•	5	0·61	+ 0·19	*3·3*	—	*28*	—	*Liverpool.*
a Liverpool (Bidston) ..	52	12th	35	12, 13	48·1	38·1	43·0	+ 0·6	23	11	•	•	•	•	•	•	5	0·70	+ 0·36	*3·6*	+ *0·1*	*31*	+ *1*	*Southport.*
a Hawarden Bridge ..	55	12th	33	12th	50·4	38·0	44·0	+ 1·7	31	11	2	21	42·5	+2·8	42·6	+1·8	—	—	—	*3·1*	—	*27*	—	*Manchester (City)*
b, NORTH WALES.											0	31	41·4	+2·7	43·1	+1·4								
p Llandudno	52	10, 11	36	12th	50·1	40·4	45·1	+ 2·6	28	4	•	•	•	•	•	•	6	1·11	+ 0·61	4·0	+ 0·5	35	+ 4	Llandudno.
a Holyhead	48	9, 13	38	15th	46·4	39·9	43·1	+ 0·7	17	6	•	•	•	•	•	•	4	0·49	- 0·09	2·9	—	25	—	Aberdovey.
p Bettws-y-Coed ..	52	11, 12	33	12th	50·0	37·1	43·4	+ 1·3	30	14	0	32	43·0	+2·8	44·1	+1·5	6	1·70	—	3·5	—	30	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				2·9	—	25	—	Aberystwyth.
a Llangammarch Wells	52	12th	24	12th	47·9	35·6	41·6	+ 1·6	17	25	3	21	42·5	+2·6	43·9	+1·1	6	2·71	—	2·1	—	18	—	Llangammarch
a Pembroke	50	10, 11	36	15th	48·3	41·1	44·6	+ 2·1	22	3	•	•	•	•	•	•	7	1·55	+ 1·05	1·6	- 2·4	14	-21	Pembroke.[Wells
p Cardiff	54	11th	31	12th	49·3	37·0	43·0	+ 0·6	28	14	4	23	43·4	+3·4	44·1	+1·7	6	1·80	+ 1·11	*2·0*	—	*17*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	54	11, 14	33	12th	50·9	38·7	44·6	+ 2·8	32	9	2	28	•	•	•	•	4	1·01	+ 0·49	*2·2*	—	*19*	—	*Clifton.*
a Shaftesbury	52	11th	32	15th	47·6	36·3	41·8	+ 1·7	16	23	•	•	42·9	•	44·1	•	4	0·52	+ 0·01	•	•	•	•	Shaftesbury.
a Arlington	50	11, 14	31	12th	47·1	37·9	42·4	+ 1·8	20	11	•	•	•	•	•	•	5	1·84	+ 0·98	•	•	•	•	Arlington.
a Newquay	*52*	*13th*	*32*	*12th*	*50·0*	*41·3*	*45·5*	+ *1·5*	*27*	*2*	•	•	46·2	•	•	•	*5*	*0·68*	+ *0·15*	2·6	- 1·6	22	-14	Newquay.
a Cullompton	55	11th	28	12th	51·4	36·4	43·7	+ 1·5	35	16	3	23	44·8	•	•	•	6	0·63	+ 0·06	1·5	- 2·3	13	-20	Cullompton.
a Portland	50	13, 14	39	9th	48·4	41·9	45·1	+ 2·4	22	0	•	•	•	•	•	•	3	0·47	—	*2·1*	—	*18*	—	*Weymouth.*
p Plymouth	54	12th	35	9th	51·1	39·5	45·1	+ 1·6	32	7	3	19	45·5	+2·6	•	•	3	0·73	+ 0·13	2·2	- 1·9	19	-16	Plymouth.
p Falmouth	52	11, 13	38	12, 15	50·6	41·7	46·0	+ 2·0	29	1	•	•	•	•	•	•	4	0·99	+ 0·26	2·5	- 1·8	22	-16	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	50	9th	33	15th	45·7	36·6	41·0	- 0·4	10	20	•	•	•	•	•	•	6	0·49	- 0·01	•	•	•	•	• •
a Blacksod Point ..	51	10th	32	15th	47·6	39·0	43·2	0·0	21	8	•	•	•	•	•	•	6	2·02	+ 1·15	•	•	•	•	• •
p Markree Castle ..	51	9th	29	13, 15	47·4	34·9	41·0	- 0·1	15	28	3	24	42·6	•	44·0	•	7	1·53	+ 0·81	1·7	- 1·6	15	-14	Markree Castle.
a Birr Castle	52	12th	28	13, 14	47·9	33·3	40·4	- 1·0	17	33	•	•	•	•	•	•	7	1·04	+ 0·51	*2·0*	- *1·5*	*17*	-*13*	*Birr Castle.*
b, East .. *p* Armagh	50	9, 11	30	15th	47·6	35·0	41·1	0·0	16	27	3	27	41·8	+0·5	43·6	+0·5	6	0·89	+ 0·39	2·2	- *1·0*	19	- 9	Armagh.
a Donaghadee	50	9th	31	13, 14	47·1	34·9	40·8	- 1·1	14	27	•	•	•	•	•	•	7	0·62	+ 0·13	•	•	•	•	• •
10. IRELAND, S.											3	21	43·6	+1·5	44·7	-0·2	—	—	—	•	•	•	•	Trinity Coll.
p Dublin, City	51	9, 12, 14	32	13th	49·9	37·9	43·7	+ 0·5	29	11	3	21	•	•	•	•	—	—	—	2·5	- 1·3	22	-12	Phœnix Park.
a, East .. *a* Kilkenny	51	9th	28	13th	48·9	35·4	42·0	0·0	19	18	1	29	•	•	•	•	5	0·37	- 0·06	•	•	•	•	Dublin City.
a Waterford	51	10, 11, 13	31	13th	49·6	38·0	43·6	+ 0·8	28	11	•	•	•	•	•	•	7	0·62	+ 0·12	•	•	•	•	• •
																	5	0·59	- 0·03	•	•	•	•	• •
a Birr Castle	52	12th	28	13, 14	47·9	33·3	40·4	- 1·0	17	33	•	•	•	•	•	•	7	1·04	+ 0·51	2·0	- 1·5	17	-13	Birr Castle.
a Foynes	52	13th	31	13, 14	49·8	36·2	42·8	- 0·5	30	16	•	•	•	•	•	•	6	0·76	+ 0·13	•	•	•	•	• •
b, West .. *a* Cahir	50	9, 11 12	29	13th	49·1	36·7	42·7	+ 0·2	27	15	•	•	•	•	•	•	7	1·17	—	•	•	•	•	• •
a Killarney	53	9 11, 12	33	13th	51·0	38·9	44·8	+ 0·7	33	9	•	•	•	•	•	•	6	1·06	+ 0·01	•	•	•	•	• •
a Valencia	52	10, 13	34	13th	49·9	39·3	44·4	- 0·3	28	8	•	•	•	•	•	•	6	1·18	+ 0·15	2·0	- 1·9	17	-17	Valencia.
a Roche's Point	51	11th	35	15th	49·1	39·6	44·2	+ 0·2	25	7	•	•	•	•	•	•	6	0·84	+ 0·19	2·1	•	18	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	11th	37	15th	51·7	41·9	46·7	+ 1·2	33	0	•	•	•	•	•	•	3	0·64	+ 0·10	2·4	- 2·0	21	-17	Scilly.
a Jersey, St. Aubins ..	57	12th	38	9, 10	53·1	41·1	48·9	+ 2·4	38	3	•	•	•	•	•	•	1	0·10	- 0·41	4·2	- 0·4	36	- 4	St. Heliers.
a Guernsey (Villa Carey)	57	12th	40	11th	52·6	43·1	47·7	+ 3·0	40	0	0	34	47·2	+3·2	47·1	+1·9	2	0·19	- 0·37	3·4	- 1·2	29	-10	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·1 hrs. 27 %; Ramsgate, 4·7 hrs 41 %; Rhyl, 3·4 hrs. 29 %; Salcombe, 2·3 hrs. 20 %; Tenby, 2·5 hrs. (- 1·8) 22 % (- 16 %); Torquay, 2·4 hrs. (- 1·9) 21 % (- 17 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, March 15th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	42	42	42·0	-0·2	SCOTLAND, W. ..	Lamlash	45	41	43·2	-0·4
	Kirkwall	42	40	41·7	+1·3		Ballantrae	44	43	43·5	+0·5
	Wick	43	41	42·5	-0·4	ENGLAND, N.W. ..	Port Erin	45	44	45·0	+1·3
SCOTLAND, E. ..	Cromarty	42	39	40·5	+0·9		Newquay	47	47	47·0	+0·5
	Pennan Bay	42	40	41·5	+1·4	ENGLAND, S.W. ..	Scilly	50	49	49·2	—
	Aberdeen, Cove Bay	42	41	41·3	+0·6		Plymouth‡	48	48	47·8	+1·7
ENGLAND, N.E. ..	Burnmouth, Berwick	39	38	38·4	-1·2		Salcombe	50	45	48·2	+3·1
	Scarborough	44	40	42·4	+2·1	IRELAND, N.W. ..	Sheephaven	46	41	43·6	-1·3
ENGLAND, E. ..	Shipwash Lightship	46	44	45·0	+4·6		Teelin	47	43	44·5	-0·4
	Margate‡	46	45	45·2	+3·7	IRELAND, S.W. ..	Cleggan	47	44	45·7	+1·1
ENGLAND, S.E. ..	Eastbourne‡	45	43	44·1	+2·1		Seafield	50	46	49·0	+2·8
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

ELEVENTH WEEK—March 9th to March 15th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	55	30	44·2	33·9	38·9	− 0·2	6	− 3	29	− 2	7	+ 2	2·10	+1·04	2·4	−0·4	21	− 4
Eastern.																		
1. SCOTLAND, EAST ...	55	25	46·1	33·6	39·7	+ 0·4	11	− 4	31	− 3	6	+ 2	0·64	+0·11	4·1	+0·8	36	+ 7
2. ENGLAND, N.E.	55	26	48·5	35·6	41·9	+ 1·2	18	− 1	26	− 1	4	+ 1	0·50	+0·08	3·9	−0·1	33	− 1
3. ENGLAND, EAST ...	56	25	50·9	37·2	43·9	+ 3·0	33	+ 9	13	−16	4	+ 1	0·33	0·00	3·5	−0·4	30	− 4
4. MIDLAND COUNTIES ...	56	25	49·9	36·3	42·9	+ 1·9	30	+ 6	16	−13	4	+ 1	0·88	+0·51	2·8	−0·6	24	− 6
5. ENGLAND, S.E.	56	26	50·6	38·6	44·4	+ 2·4	31	+ 7	10	−12	4	+ 1	0·46	+0·06	3·4	−0·4	29	− 4
Western.																		
6. SCOTLAND, WEST ...	51	26	46·3	36·0	41·0	+ 0·3	12	− 4	23	− 2	7	+ 3	1·16	+0·38	2·1	−1·3	18	−12
7. ENGLAND, N.W.	55	28	48·0	37·5	42·6	+ 1·4	23	+ 5	13	− 9	6	+ 2	1·20	+0·69	3·7	+0·4	32	+ 3
8. ENGLAND, S.W.	55	24	49·3	38·6	43·8	+ 1·3	27	+ 3	10	− 8	5	+ 1	1·23	+0·66	2·2	−1·7	19	−15
9. IRELAND, NORTH ...	52	28	47·2	35·6	41·3	− 0·5	15	− 6	25	+ 4	7	+ 2	1·10	+0·54	2·0	−1·3	17	−11
10. IRELAND, SOUTH ...	53	28	49·5	37·3	43·2	− 0·1	28	+ 1	13	− 3	6	+ 2	0·85	+0·22	2·2	−1·5	19	−13
11. ENGLISH CHANNEL ...	57	37	52·5	42·0	47·1	+ 2·0	36	+ 7	0	− 7	2	− 2	0·31	−0·16	3·3	−1·5	29	−13

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 2 Weeks, March 2nd, 1913, to March 15th, 1913.

0. SCOTLAND, NORTH ...	55	29	*	*	*	*	15	− 1	55	− 11	14	+ 4	4·18	+ 2·09	2·8	+0·1	25	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	55	18	*	*	*	*	24	− 1	62	− 10	12	+ 4	1·63	+ 0·56	4·5	+1·3	41	+12
2. ENGLAND, N.E.	57	26	*	*	*	*	50	+ 17	39	− 19	9	+ 2	0·82	− 0·02	4·4	+0·7	39	+ 6
3 ENGLAND, EAST ...	58	25	*	*	*	*	70	+ 29	22	− 40	7	+ 1	0·57	− 0·10	3·8	+0·1	33	+ 1
4. MIDLAND COUNTIES ...	58	25	*	*	*	*	65	+ 23	26	− 36	8	+ 2	1·24	+ 0·45	3·5	+0·3	31	+ 2
5. ENGLAND, S.E.	57	26	*	*	*	*	63	+ 20	14	− 34	9	+ 3	0·72	− 0·13	3·5	−0·1	31	− 1
Western.																		
6. SCOTLAND, WEST ...	53	26	*	*	*	*	33	+ 6	36	− 18	14	+ 6	2·63	+ 1·02	3·2	0·0	28	0
7. ENGLAND, N.W.	56	28	*	*	*	*	50	+ 19	22	− 26	13	+ 5	2·38	+ 1·31	3·8	+0·6	34	+ 6
8. ENGLAND, S.W.	57	24	*	*	*	*	57	+ 13	13	− 27	10	+ 2	1·73	+ 0·49	2·9	−0·7	25	− 7
9. IRELAND, NORTH ...	58	28	*	*	*	*	42	+ 4	38	− 7	14	+ 5	2·41	+ 1·24	2·7	−0·4	24	− 3
10. IRELAND, SOUTH ...	57	28	*	*	*	*	59	+ 9	23	− 12	13	+ 5	2·16	+ 0·84	2·8	−0·8	25	− 6
11. ENGLISH CHANNEL ...	57	37	*	*	*	*	81	+ 27	0	− 16	7	− 1	1·09	+ 0·04	3·5	−1·0	31	− 9

THE YEAR.—Aggregates, &c., for the Period of 11 Weeks, December 31st, 1912, to March 15th, 1913.

0. SCOTLAND, NORTH ...	55	22	*	*	*	*	83	+ 7	281	−115	57	+ 1	13·46	+0·41	1·3	−0·3	15	− 4
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	78	− 15	404	− 45	49	+ 6	6·49	+0·43	1·8	−0·4	20	− 5
2. ENGLAND, N.E.	57	18	*	*	*	*	131	+ 18	297	− 62	44	+ 4	4·70	+0·47	1·9	−0·4	21	− 4
3. ENGLAND, EAST ...	58	20	*	*	*	*	177	+ 46	231	−170	40	0	4·12	+0·08	2·2	−0·3	24	− 3
4. MIDLAND COUNTIES ...	58	13	*	*	*	*	176	+ 30	288	−110	42	+ 3	6·03	+1·06	1·7	−0·4	19	− 5
5. ENGLAND, S.E.	57	22	*	*	*	*	202	+ 41	176	−131	39	+ 1	5·68	+0·38	2·3	−0·1	24	− 1
Western.																		
6. SCOTLAND, WEST ...	54	17	*	*	*	*	133	+ 17	229	− 87	52	+ 4	11·57	+1·11	1·4	−0·6	16	− 6
7. ENGLAND, N.W.	58	10	*	*	*	*	157	+ 32	215	− 84	48	+ 4	8·26	+1·52	1·9	−0·2	21	− 1
8. ENGLAND, S.W.	57	19	*	*	*	*	220	+ 25	165	− 74	51	+ 7	10·24	+2·00	2·1	−0·3	22	− 4
9. IRELAND, NORTH ...	58	21	*	*	*	*	193	+ 30	199	− 63	56	+ 5	9·69	+1·99	1·6	−0·5	17	− 6
10. IRELAND, SOUTH ...	58	22	*	*	*	*	258	+ 22	168	− 32	57	+11	11·95	+3·08	1·8	−0·6	19	− 7
11. ENGLISH CHANNEL ...	60	32	*	*	*	*	346	+ 73	36	− 59	47	− 2	7·81	+0·85	2·6	−0·4	27	− 5

M.O., March 19, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (*New Series.*) } No. 12. TWELFTH WEEK, SUNDAY, MARCH 16TH, TO SATURDAY, MARCH 22ND, 1913.

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I.—General Remarks.

Weather continued very changeable. Precipitation was experienced very frequently, and in the northern half of the Kingdom a considerable portion of it was in the form of snow. Thunderstorms occurred in various districts, but they were more general on the 22nd, in England, than on any preceding day.

Temperature was below the average except in England E., S.E. and the English Channel. In Scotland and Ireland the deficit was 3° or more. The highest of the maxima were recorded at most stations between the 20th and 22nd, and ranged from 57° in England S.E. and 56° in England E. and the English Channel to 51° in England N.E. and 50° in England N.W. The lowest of the minima, which occurred on the 18th, ranged from 16° in Scotland E. (at West Linton) to 25° in England E, and Ireland N., and to 34° in the English Channel. The lowest grass readings were 4° at West Linton, 11° at Buxton and Birmingham, and 12° at Wisley. In many parts of the country the temperature of the soil at a depth of 1 foot was below the average, but at some stations it was a little above it. At a depth of 4 feet it was above it very generally.

Mean Temperature of the Sea. Except on the south-west coast of Ireland the water was again colder than during the corresponding week of last year. On many parts of the coast the sea temperature was also below the normal, at least as much as 2°·5 off the north-west of Ireland. At the Shipwash Lightship, however, it was more than 3°·5 higher. The means for the week ranged from 48°·7 at Scilly, and about 47° off England S.W. and at Seafield, to about 40° at Cromarty and Pennan Bay, and to 38°·5 at Burnmouth.

Rainfall was considerably in excess of the average in all districts. Falls of an inch or more in 24 hours occurred in many parts of the Kingdom; at some places early in the week, and in many on the 22nd. On the former date 1·1 in. fell at Guernsey and 1·4 in. (of snow) at Fort William. The largest falls on the latter date were 1·3 in. at Buxton and 1·5 in. at Aberdovey and Stonehaven.

Bright Sunshine differed little from the normal over the Kingdom as a whole. The percentage of the possible duration ranged from 39 in England N.E. and 38 in England E. and S.E. to 26 in England S.W. and to 21 in Scotland N. In this last district the mean daily amount was only 2½ hours, but in the north-eastern, eastern and south-eastern counties of England it exceeded 4½ hours.

Barometer and Wind. Early in the week the centre of a depression moved southward to the east of England, but generally the cyclonic centres travelled in an easterly direction over the northern parts of these Islands, and the main wind direction was from between South-West and West. Some of the disturbances were again deep, and the surrounding gradient steep. Gales were experienced on most coasts on the 18th and 19th; on the latter date the velocity in gusts reached 77 miles per hour at Southport. Late on Saturday, when a depression moved from the south-west to the north-east of England, the wind rose to a very violent gale on the English Channel, and to a fresh or strong gale over a larger area inland; at Kew Observatory a velocity in a gust of 67 miles per hour was recorded.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 47.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Very deficient	Deficient	Deficient	Moderate	Moderate	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient	Moderate
	Rainfall ...	Heavy	Very heavy	Very heavy	Very heavy	Very heavy	Very heavy	Heavy	Very heavy	Very heavy	Heavy	Heavy	Very heavy
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 3 weeks from March 2nd, 1913.	Warmth ...	0 * 1	0 * 1	1 * 1	2 * 0	2 * 0	2 * 0	1 * 1	1 * 1	1 * 0	1 * 1	1 * 1	2 * 0
	Rainfall ...	3 * 0	2 * 0	1 * 1	1 * 0	2 * 0	1 * 0	3 * 0	3 * 0	2 * 0	3 * 0	2 * 0	2 * 0
	Sunshine ...	1 * 0	1 * 0	1 * 0	0 * 0	1 * 0	0 * 0	1 * 1	1 * 0	0 * 1	0 * 1	0 * 1	0 * 2

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(29170—24.) Wt. 173—804. 450. 3/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
0. SCOTLAND, N.	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
p Baltasound .. S	*45*	*21st*	*23*	*19th*	*40·6*	*30·8*	*35·6*	—	*0*	*45*	•	•	36·4	•	•	•								
a, Islands .. *a* Lerwick	48	22nd	27	18th	40·4	32·1	36·1	- 2·6	0	41	•	•	•	•	•	•	5	1·02	—	3·4	- 0·2	28	- 1	Deerness.
a Stornoway	47	22nd	29	16–18	41·7	32·4	36·9	- 3·1	0	36	•	•	•	•	•	•	7	1·42	+ 0·53	2·9	- 1·6	17	- 13	Stornoway.
a Castlebay, Barra Isd.	*46*	*21st*	*32*	*16–18*	*42·7*	*34·8*	*38·5*	*- 4·4*	*2*	*25*	•	•	•	•	•	•	*6*	*1·37*	—	*1·8*	—	*15*	—	*Castlebay.*
a Wick	46	22nd	27	18, 19	41·4	31·0	36·1	- 3·8	0	41	•	•	•	•	•	•	6	1·14	+ 0·64	•	•	•	•	
b, Main- *p* Strathpeffer .. land.											•	•	•	•	•	•								Strathpeffer.
p Glencarron ..	49	22nd	23	17th	40·4	28·4	34·7	- 4·1	0	51	•	•	•	•	•	•	6	0·90	- 0·80	•	•	•	•	
p Fort Augustus..	50	22nd	22	18th	41·0	30·6	35·7	- 4·1	0	44	•	•	•	•	•	•	7	1·57	+ 0·79	2·0	- 0·7	17	- 6	Fort Augustus.
p Fort William ..	52	22nd	21	18th	41·7	30·4	35·9	- 5·1	0	43	•	•	•	•	•	•	7	3·01	+ 1·57	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. *b*	52	22nd	28	17th	42·9	30·9	36·7	- 4·1	3	38	6	23	37·3	-1·2	39·1	+0·4	—	—	—	3·2	—	27	—	Crathes S.
a Nairn	53	22nd	28	16, 18	43·6	29·6	36·4	- 3·5	4	43	•	•	•	•	•	•	4	0·99	+ 0·49	*3·2*	—	*27*	—	*Gordon Castle.*
a Aberdeen ..	50	22nd	29	18th	44·9	33·4	39·0	- 1·4	8	31	•	•	•	•	40·1	+0·4	5	1·64	+ 1·12	3·3	- 0·7	28	- 6	Aberdeen.
a Balmoral ..	46	21, 22	25	18th	42·3	28·9	35·4	- 0·8	1	45	7	21	•	•	•	•	5	1·16	+ 0·54	•	•	•	•	Balmoral.
p Crieff	50	22nd	20	18th	42·4	29·0	35·5	- 5·0	1	44	•	•	•	•	•	•	6	2·02	+ 1·37	3·5	—	29	—	Balruddery.
a Leith	50	22nd	27	18, 19	45·1	32·9	38·8	- 3·1	9	33	•	•	•	•	•	•	6	1·26	+ 0·94	•	•	•	•	
p West Linton .. *b*	47	22nd	16	18th	40·9	28·4	34·5	- 4·0	0	53	4	4	•	•	•	•	7	1·29	—	*3·4*	—	*28*	—	*West Linton.*
p Marchmont ..	49	22nd	20	18th	43·1	29·7	36·2	- 3·1	3	42	5	16	36·0	-2·3	•	•	7	1·29	+ 0·74	4·5	+ 0·9	38	+ 7	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	50	22nd	25	18th	45·3	31·9	38·4	- 2·1	9	36	6	19	36·3	-2·2	40·1	+0·5	5	1·54	+ 0·99	6·4	—	53	—	Cockle Park.
a Shields	49	21st	23	18th	45·3	30·9	37·9	- 3·0	9	40	•	•	•	•	•	•	6	0·94	+ 0·53	•	•	•	•	
p Durham	47	21st	23	18th	43·4	31·4	37·2	- 3·0	4	37	5	18	•	•	•	•	6	0·86	+ 0·48	4·8	+ 1·1	49	+ 9	Durham.
a, North .. *p* Rounton	47	20th	23	18th	43·4	32·1	37·6	- 2·5	4	35	6	17	38·7	•	•	•	6	0·93	+ 0·48	•	•	•	•	Rounton.
a West Witton	*45*	*21, 22*	*24*	*18th*	*41·9*	*31·9*	*36·8*	—	*0*	*36*	4	21	37·3	•	•	39·6	7	*2·44*	—	•	•	•	•	*West Witton.*
p Scarborough	48	20, 21	28	18th	45·1	34·3	39·5	- 2·0	9	28	•	•	•	•	•	42·7†	6	0·93	+ 0·52	4·2	—	35	—	Scarborough.
p York	50	20, 21	25	18th	46·1	34·1	39·9	- 1·9	11	29	•	•	40·4	+0·1	42·1	+1·2	7	0·75	+ 0·38	2·5	- 0·6	23	- 5	York.
											6	20	39·1	-1·1	42·0	+0·9	—	—	—	*3·9*	—	*24*	—	*Hull.*
a Spurn Head	51	21st	30	18, 19	44·9	33·0	38·8	- 2·6	8	32	•	•	•	•	•	•	7	1·26	+ 0·97	*4·0*	—	*33*	—	*Spurn Head.*
b South .. *a* Lincoln	51	20th	26	18th	46·9	33·7	40·1	- 1·7	14	31	•	•	37·9	-1·6	41·6	+1·1	7	0·89	+ 0·54	•	•	•	•	Lincoln.
a Fulbeck	50	20th	20	18th	45·9	33·3	39·4	- 2·4	11	32	7	14	40·7	-0·9	43·2	+0·9	6	1·35	+ 1·01	4·7	—	39	—	Ranceby.
											•	•	•	•	•	•	—	—	—	5·1	—	43	—	Skegness.
3. ENGLAND, E.											1	24	42·1	+0·7	43·6	+1·8	—	—	—	*4·8*	—	*40*	—	*Lowestoft.*
p Cromer	53	20, 21	33	18th	49·7	35·7	42·5	+ 1·6	30	18	•	•	•	•	•	•	7	1·01	—	4·9	•	41	•	Cromer.
p Little Massingham ..	53	22nd	27	18th	47·3	34·1	40·5	- 1·0	15	30	6	22	•	•	•	•	7	1·51	+ 1·11	4·3	+ 0·4	36	+ 4	Lit. Massingham
a, North .. *a* Yarmouth	55	20th	30	18, 19	48·7	35·9	42·1	+ 1·4	26	17	•	•	41·7	+0·2	45·0	+2·0	7	0·80	+ 0·46	4·6	—	38	—	Yarmouth.
a Norwich	54	20, 22	30	18th	48·6	35·9	42·1	+ 0·8	26	17	3	23	40·8	•	•	•	7	1·07	—	*4·9*	—	*41*	—	*Norwich.*
p Geldeston ..	54	20th	30	18th	49·6	36·1	42·7	+ 1·2	30	17	•	•	•	•	•	•	6	0·60	+ 0·26	4·6	+ 0·4	38	+ 3	Geldeston.
p Cambridge	55	22nd	28	18th	50·4	35·7	42·8	+ 0·8	32	18	3	21	42·6	+0·9	44·2	+1·4	6	0·64	+ 0·34	5·7	+ 1·6	48	+13	Cambridge.
a Felixstowe	*53*	*20th*	*29*	*18th*	*48·3*	*37·1*	*42·6*	*+ 0·7*	*24*	*14*	•	•	•	•	•	•	7	*0·77*	—	*5·2*	—	*43*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	51	19, 20, 21	29	18th	48·3	36·9	42·4	+ 1·1	24	14	1	24	43·3	+1·2	45·1	+1·2	6	1·43	—	4·8	—	40	—	Clacton.
a Rothamsted	54	22nd	25	18th	49·9	34·4	41·9	+ 0·8	22	30	•	•	•	•	•	•	7	0·97	+ 0·56	4·2	+ 0·3	35	+ 2	Rothamsted.
a Shoeburyness	*54*	*20th*	*29*	*18th*	*50·0*	*37·9*	*43·8*	*+ 0·9*	*30*	*11*	3	19	43·9	+2·0	•	•	*6*	*0·69*	*+ 0·44*	*4·1*	—	*34*	—	*Southend.*
p Tottenham	56	22nd	36	17th	50·1	39·4	44·6	+ 2·4	29	7	1	23	•	•	45·0	+2·1	7	0·92	—	3·7	—	31	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	47	21st	23	18th	43·1	31·9	37·3	- 2·8	3	35	1	21	38·8	0·0	41·4	+1·5	—	—	—	*3·1*	—	*26*	—	*Huddersfield.*
a Bawtry	50	20, 21	25	18th	46·4	33·6	39·8	- 2·0	12	31	3	17	38·3	-1·1	40·7	+0·6	7	1·06	+ 0·59	3·2	—	27	—	Harrogate.
p Buxton	*43*	*20, 21*	*21*	*18th*	*41·0*	*31·3*	*36·0*	*- 2·4*	*0*	*42*	4	17	40·2	•	42·3	•	7	0·76	+ 0·43	3·9	+ 0·5	33	+ 4	Worksop.
a East .. *a* Nottingham	50	22nd	25	18th	47·0	32·7	39·6	- 2·0	14	34	6	11	38·6	+0·1	41·7	+1·3	7	*2·08*	*+ 1·18*	*3·3*	—	*28*	—	*Buxton.*
p Birmingham, Edgbsn.	47	19, 22	25	18th	44·0	33·4	38·5	- 2·7	6	30	2	21	38·8	-0·8	41·2	+1·5	7	1·23	+ 0·88	3·4	—	28	—	Nottingham.
a Raunds	53	20, 22	24	18th	49·6	33·3	41·2	+ 0·1	21	34	6	11	39·7	-0·6	43·9	+1·2	7	1·30	+ 1·40	3·5	—	29	—	Birmingham.
p Oxford	54	22nd	28	18th	49·6	36·3	42·8	+ 0·5	30	16	5	14	40·9	•	43·9	•	7	1·96	—	•	•	•	•	Raunds.
											2	22	•	•	•	•	7	1·21	+ 0·90	3·7	- 0·2	31	- 1	Oxford.
a Cheadle	47	20th	23	17th	45·1	31·1	37·9	- 2·3	9	39	1	18	40·3	+1·1	41·8	+1·5	—	—	—	4·1	—	34	—	Sheffield.
p Shrewsbury	50	20th	25	18th	47·0	34·0	40·3	- 2·3	14	30	6	20	•	•	•	•	6	1·56	+ 1·06	•	•	•	•	Cheadle.
b, West .. *a* Hereford	50	19, 20	25	18th	46·3	33·6	39·8	- 2·6	12	31	4	20	•	•	•	•	6	1·28	—	•	•	•	•	Shrewsbury.
a Cirencester	53	19th	24	18th	47·6	32·6	39·9	- 0·9	18	35	1	20	•	•	•	•	7	2·82	+ 2·43	•	•	•	•	Hereford.
a Bath	54	20, 22	28	18th	51·1	35·6	43·1	+ 0·6	35	18	1	26	41·6	•	43·6	•	7	1·63	+ 1·21	3·3	- 0·6	28	- 5	Cirencester.
											•	•	43·5	+0·5	45·9	+2·0	7	1·61	+ 1·14	3·3	—	28	—	Bath.
5. ENGLAND, S.E.											2	24	43·9	+2·6	46·1	+2·6	—	—	—	•	•	•	•	Canterbury
p Kew	57	22nd	30	18th	49·9	37·7	43·6	+ 1·1	29	12	1	19	43·1	+1·5	45·0	+1·7	7	1·08	+ 0·72	3·8	+ 0·2	32	+ 2	Kew.
a Marlborough	53	22nd	24	18th	48·9	34·1	41·3	+ 0·9	19	31	1	20	•	•	•	•	6	1·55	+ 1·03	3·4	- 0·2	28	- 1	Marlborough.
a Margate	55	21st	35	19th	48·3	40·3	44·2	+ 2·2	23	5	0	32	44·3	+2·7	46·0	+3·8	5	0·40	+ 0·07	4·6	+ 0·5	38	+ 4	Margate.
a Wisley, Surrey ..	56	22nd	28	18th	50·4	36·7	43·4	+ 0·5	32	15	2	12	43·0	+1·5	44·3	+1·5	7	1·31	—	4·4	—	37	—	Wisley
a Swarraton	55	22nd	26	18th	49·6	35·7	42·4	+ 0·9	29	18	1	29	44·7	+2·3	46·0	+2·3	7	1·51	+ 1·01	5·3	—	44	—	Worthing.
p Salisbury	*52*	*20th*	*28*	*18th*	*48·3*	*35·4*	*41·7*	—	*18*	*26*	1	23	44·1	—	—	—	7	*1·75*	—	*3·4*	—	*28*	—	*Salisbury.*
a Tunbridge Wells ..	55	22nd	27	18th	49·0	35·3	42·0	+ 0·2	20	19	2	22	42·6	+1·8	•	•	7	1·74	+ 1·26	4·8	+ 0·7	40	+ 6	Tunbridge Wells
a Dungeness	53	19, 20, 22	29	18th	49·9	39·1	44·3	+ 2·4	28	8	•	•	•	•	•	•	7	0·81	+ 0·45	5·1	—	43	—	Littlestone.
p Hastings..	52	19–22	31	18th	49·1	38·9	43·9	+ 1·2	26	9	1	27	44·4	•	45·1	•	7	1·02	+ 0·56	*5·5*	+ *0·9*	*46*	+ *8*	*Hastings.*
p Southampton	54	22nd	29	18th	49·6	38·1	43·7	- 0·7	28	11	1	22	•	•	•	•	6	1·77	+ 1·30	3·8	- 0·5	32	- 4	Southampton
a Ventnor	53	19, 20	31	18th	50·4	39·9	45·0	+ 0·8	30	6	•	•	•	•	•	•	6	0·84	+ 0·42	5·0	+ 0·2	42	+ 2	Ventnor.
											1	22	45·1	+1·8	47·0	+2·1	—	—	—	*4·3*	—	*36*	—	*Portsmouth.*
											•	•	45·1	—	46·3	—	—	—	—	4·9	+ 0·4	41	+ 3	Eastbourne.
LONDON.											•	•	44·0	•	45·0	•	—	—	—	*4·1*	—	*34*	—	*Bournemouth.*
											1	24	•	•	45·2	•	—	—	—	*5·5*	—	*46*	—	*Brighton.*
a Westminster	*57*	*22nd*	*31*	*18th*	*51·3*	*38·4*	*44·7*	*+ 1·9*	*34*	*10*	2	26	•	•	•	•	7	*0·95*	*+ 0·57*	*2·9*	+ *0·5*	*24*	+ *4*	*Westminster.*
a Greenwich	*57*	*22nd*	*28*	*18th*	*51·0*	*37·0*	*43·8*	*+ 0·4*	*34*	*14*	2	19	•	•	•	•	7	*1·25*	*+ 0·88*	*3·8*	+ *0·4*	*32*	+ *3*	*Greenwich.*
a Hampstead	*54*	*22nd*	*26*	*18th*	*48·4*	*35·9*	*42·0*	—	*18*	*17*	1	18	•	•	•	•	7	*1·05*	—	*3·4*	—	*28*	—	*Hampstead.*
a Camden Square ..	*56*	*22nd*	*26*	*18th*	*50·9*	*36·4*	*43·4*	—	*33*	*16*	1	21	•	•	•	•	7	*1·04*	—	*3·3*	—	*28*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. *S*	50	21st	21	18th	42·6	32·1	37·2	- 3·7	2	34	•	•	•	•	•	•	5	2·25	+ 1·48	•	•	•	•	
p Glasgow	49	22nd	27	18th	43·1	34·0	38·4	- 2·3	3	28	3	18	•	•	•	•	6	1·12	+ 0·59	2·8	- 0·1	23	- 1	Glasgow.
p Rothesay	53	22nd	24	18th	44·9	34·3	39·4	- 2·1	8	28	•	•	•	•	42·2	+0·3	5	1·76	+ 1·03	•	•	•	•	
a Kilmarnock	51	22nd	21	18th	45·0	32·7	38·7	- 2·3	8	34	•	•	•	•	•	•	5	1·07	—	*3·5*	—	*29*	—	*Kilmarnock.*
a Colmonell	49	21, 22	21	18th	44·9	33·4	39·0	- 2·9	8	31	3	18	•	•	•	•	4	1·59	+ 0·86	•	•	•	•	
p Dumfries	46	21, 22	24	18th	43·4	32·7	37·9	- 3·2	4	32	2	19	38·9	•	41·4	•	5	1·07	+ 0·44	*4·9*	—	*41*	—	*Dumfries.*
p Cally, Gatehouse *b*	48	21, 22	24	18th	44·4	33·1	38·6	- 2·3	7	32	•	•	•	•	•	•	2	1·38	+ 0·53	•	•	•	•	
b I. OF MAN																								
p Douglas	46	19, 21	23	18th	44·4	33·7	38·9	- 2·9	7	30	2	19	•	•	•	•	6	1·20	+ 0·56	5·1	+ 0·6	43	+ 5	Douglas.
											2	16	39·4	+0·8	41·5	+1·4	—	—	—	*2·9*	—	*24*	—	*Burnley.*
											2	24	•	•	•	•	—	—	—	4·5	—	38	—	Hoylake.
7. *a*, ENGLAND, N.W.											2	15	39·9	•	43·1	•	6	1·33	+ 0·67	4·6	—	38	—	Aspatria.
p Aspatria	47	21st	24	18th	43·0	33·1	37·9	- 2·5	3	31	7	16	38·6	-1·4	40·7	+0·6	7	2·00	+ 1·45	2·6	- 1·1	22	- 9	Newton Rigg.
p Newton Rigg	46	20th	21	18th	41·9	31·3	36·4	- 3·1	0	39	3	14	•	•	•	•	6	1·14	+ 0·37	2·7	- 0·9	23	- 8	Stonyhurst.
p Stonyhurst	47	21st	25	18th	43·7	34·1	38·8	- 1·8	5	28	4	14	41·1	•	44·0	•	7	1·22	+ 0·72	4·0	+ 0·3	33	+ 3	Blackpool.
p Blackpool	49	21st	25	18th	45·1	34·9	39·9	- 1·6	9	26	•	•	•	•	•	•	6	1·06	+ 0·60	*3·7*	+ *1·3*	*31*	+*11*	*Whit. Park.*
p Manchester (Whit. Pk.)	49	20, 21	26	18th	45·6	35·7	40·5	- 1·5	10	24	•	•	•	•	•	•	6	0·96	+ 0·54	*4·5*	—	*38*	—	*Liverpool.*
a Liverpool (Bidston) ..	48	20, 21	30	18, 19	45·9	33·7	39·6	- 3·5	11	30	•	•	•	•	•	•	6	1·30	+ 0·96	*3·7*	- *0·1*	*31*	- *1*	*Southport.*
a Hawarden Bridge ..	50	18, 21	30	18th	47·3	35·6	41·3	- 1·6	15	25	2	24	40·2	-0·9	42·7	+1·1	7	—	—	*3·4*	—	*28*	—	*Manchester (City).*
											1	24	39·2	-0·5	43·5	+1·6	—							
b, NORTH WALES.																								
p Llandudno	49	19, 21	29	18th	46·3	35·6	40·8	- 2·2	12	24	•	•	•	•	•	•	7	1·75	+ 1·27	3·9	+ *0·1*	33	+ 1	Llandudno.
a Holyhead	47	18th	31	18, 19	43·4	36·0	39·6	- 3·3	4	21	•	•	•	•	•	•	6	1·73	+ 1·16	*4·0*	—	*33*	—	*Holyhead.*
p Bettws-y-Coed ..	48	19th	31	21st	45·9	34·1	39·8	- 3·1	11	29	?	?	40·4	-1·5	44·0	+1·2	7	1·74	—	3·1	—	26	—	Bettws-y-Coed.
											—	—	•	•	•	•	—	—	—	3·0	—	25	—	Aberdovey.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°|	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				2·7	—	23	—	Aberystwyth.
a Llangammarch Wells	47	18, 19	23	18th	44·6	32·4	38·3	- 2·3	7	34	3	19	40·2	-0·8	44·0	+1·0	7	3·10	—	2·5	—	21	—	Llangammarch
a Pembroke	48	18, 19	33	17th	46·3	36·3	41·2	- 1·7	12	22	•	•	•	•	•	•	7	2·17	+ 1·69	3·4	- 1·0	28	- 9	Pembroke.[Wells
p Cardiff	51	20th	28	18th	47·4	36·1	41·6	- 1·7	15	23	1	21	42·6	+1·6	44·4	+1·9	6	2·26	+ 1·59	*4·2*	—	*35*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	52	20, 22	29	18th	49·4	36·9	43·0	+ 0·3	28	14	1	25	•	•	•	•	6	1·50	+ 0·97	*3·4*	—	*28*	—	*Clifton.*
a Shaftesbury	50	22th	27	18th	47·0	33·4	40·0	- 1·1	14	32	•	•	42·1	•	44·1	•	7	1·08	+ 0·57	•	•	•	•	Shaftesbury.
a Arlington	48	17, 20	28	18th	46·4	34·0	40·0	- 1·4	12	30	•	•	•	•	•	•	7	2·62	+ 1·79	•	•	•	•	Arlington.
a Newquay	*50*	*19, 20*	*32*	*18th*	*48·1*	*37·0*	*42·4*	*- 2·1*	*24*	*14*	•	•	45·4	•	•	•	7	*2·12*	*+ 1·62*	2·9	- 1·6	24	-13	Newquay.
a Cullompton	53	20th	27	18th	49·3	35·3	42·1	+ 0·9	29	19	1	21	43·9	•	•	•	7	2·06	+ 1·51	3·0	- 1·1	25	- 9	Cullompton.
a Portland	50	19th	35	18th	48·6	40·7	44·5	+1·1	23	4	•	•	•	•	•	•	7	1·20	—	*3·0*	—	*25*	—	*Weymouth.*
p Plymouth	53	19th	30	18th	48·5	39·2	44·2	+ 0·1	27	8	2	18	45·1	+0·9	•	•	7	1·49	+ 0·90	3·6	- 0·8	30	- 7	Plymouth.
p Falmouth	50	19, 20	34	18th	48·1	40·0	43·9	- 0·5	22	6	•	•	•	•	•	•	7	2·04	+ 1·35	4·1	- 0·5	34	- 4	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	49	21st	31	18th	44·3	34·3	39·2	- 2·7	6	28	•	•	•	•	•	•	6	0·80	+ 0·30	•	•	•	•	
a Blacksod Point ..	50	22nd	33	16, 18	46·0	35·1	40·4	- 3·4	11	26	•	•	•	•	•	•	7	1·78	+ 0·95	•	•	•	•	
p Markree Castle ..	52	22nd	27	18th	45·7	32·7	39·0	- 2·8	10	34	4	23	40·4	•	43·8	•	7	1·30	+ 0·60	4·5	+ 0·9	38	+ 8	Markree Castle.
a Birr Castle ..	49	22nd	25	18th	46·0	31·4	38·5	- 3·3	11	39	•	•	•	•	•	•	6	0·78	+ 0·26	*3·7*	- *0·1*	*31*	- *1*	*Birr Castle.*
b, East .. { *p* Armagh	50	21st	27	18th	44·9	33·0	38·8	- 3·1	8	32	2	18	39·6	-2·7	43·1	-0·2	4	0·69	+ 0·19	3·6	+ 0·1	30	+ 1	Armagh.
a Donaghadee ..	49	21st	28	18, 19	45·1	32·6	38·7	- 3·8	9	34	•	•	•	•	•	•	5	0·67	+ 0·19	•	•	•	•	
											5	15	42·0	-1·2	44·6	-0·1	—	—	—	•	•	•	•	Trinity Coll.
											5	16	•	•	•	•	—	—	—	3·5	- 0·7	29	- 6	Phœnix Park.
10. IRELAND. S.																								
a. East .. { *p* Dublin, City	50	22nd	28	18th	46·6	35·9	41·1	- 2·8	13	24	1	24	•	•	•	•	5	0·19	- 0·24	•	•	•	•	Dublin City.
a Kilkenny	49	21st	23	18th	46·7	32·1	39·2	- 3·5	13	37	•	•	•	•	•	•	7	0·76	+ 0·28	•	•	•	•	
a Waterford	51	19th	26	18th	48·6	34·1	41·1	- 2·3	18	31	•	•	•	•	•	•	6	1·18	+ 0·59	•	•	•	•	
b, West .. { *a* Birr Castle	49	22nd	25	18th	46·0	31·4	38·5	- 3·3	11	39	•	•	•	•	•	•	6	0·78	+ 0·26	3·7	- 0·1	31	- 1	Birr Castle.
a Foynes	51	22nd	30	18th	46·8	33·6	40·0	- 3·9	13	31	•	•	•	•	•	•	7	1·12	+ 0·51	•	•	•	•	
a Cahir	49	19th	26	18th	46·4	31·9	38·9	- 4·1	12	37	•	•	•	•	•	•	6	1·04	—	•	•	•	•	
a Killarney	54	22nd	31	18th	49·5	35·7	42·4	- 2·1	29	18	•	•	•	•	•	•	7	1·92	+ 0·92	•	•	•	•	
a Valencia	53	22nd	34	18th	48·4	36·6	42·3	- 2·8	25	15	•	•	•	•	•	•	7	1·90	+ 0·91	4·4	+ 0·2	37	+ 2	Valencia.
a Roche's Point	49	18th	31	18th	46·7	36·7	41·6	- 2·9	13	21	•	•	•	•	•	•	6	0·88	+ 0·24	4·5	—	38	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	51	19th	36	17th	48·7	39·9	44·2	- 1·7	24	6	•	•	•	•	•	•	7	1·50	+ 0·99	2·7	- 2·0	23	-17	Scilly.
a Jersey, St. Aubins ..	56	22nd	34	18th	52·3	41·3	46·6	+ 1·5	35	2	•	•	•	•	•	•	7	1·06	+ 0·55	4·5	- 0·5	38	- 4	St. Heliers.
a Guernsey (Villa Carey)	55	22nd	35	18th	52·0	42·4	47·1	+ 1·9	36	0	1	28	46·6	+1·5	47·5	+1·9	7	1·46	+ 0·92	4·6	- 0·3	38	- 3	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·3 hrs. 44 %; Ramsgate, 4·9 hrs 41 %; Rhyl, 3·9 hrs. 33 %; Salcombe, 4·3 hrs. 36 %; Tenby, 3·3 hrs. (- 1·4) 28 % (- 12 %); Torquay, 3·7 hrs. (- 1·0) 31 % (- 9 %)*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, March 22nd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	42	41	41·3	-1·0	SCOTLAND, W. ..	{ Lamlash	43	38	42·1	-1·6
	{ Kirkwall	41	39	40·0	-1·4		{ Ballantrae	42	40	41·6	-1·9
	{ Wick	43	42	42·5	-0·7	ENGLAND, N.W. ..	Port Erin	45	44	44·2	+0·2
SCOTLAND, E. ..	{ Cromarty	41	39	39·9	-0·3	ENGLAND, S.W. ..	{ Newquay	48	47	47·5	+0·5
	{ Pennan Bay	41	39	39·8	-1·1		{ Scilly	49	48	48·7	—
	{ Aberdeen, Cove Bay	42	41	41·5	+0·1		{ Plymouth‡	47	47	47·0	+0·4
ENGLAND, N.E. ..	{ Burnmouth, Berwick	39	38	38·5	-1·5		{ Salcombe	48	44	46·9	+1·4
	{ Scarborough	43	39	40·6	-0·3	IRELAND, N.W. ..	{ Sheephaven	44	42	42·6	-2·5
ENGLAND, E. ..	{ Shipwash Lightship	47	42	44·5	+3·7		{ Teelin	45	40	42·5	-2·9
	{ Margate‡	46	43	44·5	+2·2	IRELAND, S.W. ..	{ Cleggan	46	42	44·7	-0·6
ENGLAND, S.E. ..	Eastbourne‡	—	—	—	—	IRELAND, E.	{ Seafield	48	46	47·2	+0·1
							.. .. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWELFTH WEEK—March 16th to March 22nd, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	52	21	41·1	31·0	35·9	− 4·1	0	− 14	43	+15	6	0	1·51	+0·48	2·5	−0·8	21	− 7
Eastern.																		
1. SCOTLAND, EAST ...	53	16	43·2	30·4	36·6	− 3·6	3	− 17	40	+ 9	6	+ 2	1·28	+0·76	3·7	−0·2	31	− 1
2. ENGLAND, N.E.	51	20	45·1	32·7	38·8	− 2·5	9	− 13	34	+ 9	6	+ 2	1·05	+0·68	4·7	+0·3	39	+ 3
3. ENGLAND, EAST ...	56	25	49·2	36·0	42·4	+ 0·6	28	0	17	−10	7	+ 3	0·99	+0·62	4·6	+0·3	38	+ 2
4. MIDLAND COUNTIES ...	54	23	47·0	33·5	40·0	− 1·8	14	− 14	32	+ 5	7	+ 4	1·54	+1·17	3·6	−0·3	30	− 3
5. ENGLAND, S.E.	57	24	49·5	37·6	43·4	+ 0·5	28	0	12	− 8	7	+ 4	1·20	+0·80	4·5	+0·3	38	+ 2
Western.																		
6. SCOTLAND, WEST ...	53	21	44·1	33·3	38·5	− 3·0	6	− 14	31	+ 9	5	0	1·43	+0·63	4·0	+0·1	33	+ 1
7. ENGLAND, N.W.	50	21	44·6	34·4	39·3	− 2·6	7	− 14	27	+ 7	7	+ 4	1·42	+0·89	3·6	−0·3	30	− 3
8. ENGLAND, S.W.	53	20	47·7	36·4	41·9	− 1·4	16	− 11	23	+ 7	7	+ 4	1·95	+1·37	3·2	−1·2	26	− 9
9. IRELAND, NORTH ...	52	25	45·3	33·2	39·1	− 3·3	9	− 14	32	+13	6	+ 2	1·00	+0·38	4·1	+0·4	34	+ 3
10. IRELAND, SOUTH ...	54	23	47·3	34·2	40·6	− 3·3	15	− 15	30	+15	6	+ 2	1·09	+0·43	4·0	−0·2	34	− 1
11. ENGLISH CHANNEL ...	56	34	51·0	41·2	46·0	+ 0·3	31	− 1	2	− 4	7	+ 3	1·34	+0·87	3·9	−1·3	33	−11

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 3 Weeks, March 2nd, 1913, to March 22nd, 1913.

0. SCOTLAND, NORTH ...	55	21	*	*	*	*	15	− 15	98	+ 4	20	+ 4	5·69	+ 2·57	2·7	−0·2	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	55	16	*	*	*	*	27	− 18	102	− 1	18	+ 6	2·91	+ 1·32	4·3	+0·9	37	+ 7
2. ENGLAND, N.E.	57	20	*	*	*	*	59	+ 4	73	− 10	15	+ 4	1·87	+ 0·66	4·5	+0·6	39	+ 5
3 ENGLAND, EAST ...	58	25	*	*	*	*	98	+ 29	39	− 50	14	+ 4	1·56	+ 0·52	4·0	+0·1	35	+ 1
4. MIDLAND COUNTIES ...	58	23	*	*	*	*	79	+ 9	58	− 31	15	+ 6	2·78	+ 1·62	3·5	0·0	30	0
5. ENGLAND, S.E.	57	24	*	*	*	*	91	+ 20	26	− 42	16	+ 7	1·92	+ 0·67	3·9	+0·1	34	+ 1
Western.																		
6. SCOTLAND, WEST ...	53	21	*	*	*	*	39	− 8	67	− 9	19	+ 6	4·06	+ 1·65	3·4	0·0	30	0
7. ENGLAND, N.W. ...	56	21	*	*	*	*	57	+ 5	49	− 19	20	+ 9	3·80	+ 2·20	3·7	+0·3	32	+ 3
8. ENGLAND, S.W.	57	20	*	*	*	*	73	+ 2	36	− 20	17	+ 6	3·68	+ 1·86	3·0	−0·9	26	− 8
9. IRELAND, NORTH ...	58	25	*	*	*	*	51	− 10	70	+ 6	20	+ 7	3·41	+ 1·62	3·1	−0·2	27	− 1
10. IRELAND, SOUTH ...	57	23	*	*	*	*	74	− 6	53	+ 3	19	+ 7	3·25	+ 1·27	3·2	−0·6	28	− 5
11. ENGLISH CHANNEL ...	57	34	*	*	*	*	112	+ 26	2	− 20	14	+ 2	2·43	+ 0·91	3·6	−1·1	31	−10

THE YEAR.—Aggregates, &c., for the Period of 12 Weeks, December 31st, 1912, to March 22nd, 1913.

0. SCOTLAND, NORTH ...	55	21	*	*	*	*	83	− 7	324	−100	63	+ 1	14·97	+0·89	1·4	−0·4	15	− 5
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	81	− 32	444	− 36	55	+ 8	7·77	+1·19	1·9	−0·4	21	− 5
2. ENGLAND, N.E.	57	18	*	*	*	*	140	+ 5	331	− 53	50	+ 6	5·75	+1·15	2·2	−0·3	23	− 3
3. ENGLAND, EAST ...	58	20	*	*	*	*	205	+ 46	248	−180	47	+ 3	5·11	+0·70	2·4	−0·2	26	− 2
4. MIDLAND COUNTIES ...	58	13	*	*	*	*	190	+ 16	320	−105	49	+ 7	7·57	+2·23	1·9	−0·4	20	− 4
5. ENGLAND, S.E.	57	22	*	*	*	*	230	+ 41	188	−139	46	+ 5	6·88	+1·18	2·5	−0·1	26	− 1
Western.																		
6. SCOTLAND, WEST ...	54	17	*	*	*	*	139	+ 3	260	− 78	57	+ 4	13·00	+1·74	1·6	−0·5	17	− 5
7. ENGLAND, N.W.	58	10	*	*	*	*	164	+ 18	242	− 77	55	+ 8	9·68	+2·41	2·0	−0·2	22	− 2
8. ENGLAND, S.W.	57	19	*	*	*	*	236	+ 14	188	− 67	58	+11	12·19	+3·37	2·2	−0·4	23	− 4
9. IRELAND, NORTH ...	58	21	*	*	*	*	202	+ 16	231	− 50	62	+ 7	10·69	+2·37	1·8	−0·4	19	− 5
10. IRELAND, SOUTH ...	58	22	*	*	*	*	273	+ 7	198	− 17	63	+13	13·04	+3·51	2·0	−0·6	20	− 6
11. ENGLISH CHANNEL ...	60	32	*	*	*	*	377	+ 72	38	− 63	54	+ 1	9·15	+1·72	2·7	−0·5	27	− 5

M.O., March 26, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) No. 13. THIRTEENTH WEEK, SUNDAY, MARCH 23RD, TO SATURDAY, MARCH 29TH, 1913. *Price 6d.* *Annual Subscription Post Paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather varied a good deal; during the greater part of the period it was of an unsettled description, although some days were fair and dry. As a rule the western section of the Kingdom was fairer than the eastern. Thunder and lightning occurred at some stations in the east and south-east of England on the 28th and 29th.

Temperature differed little from the average. The highest readings were recorded on rather irregular dates; at a great number of stations they occurred on the 29th. The actual values ranged from 58° in Ireland South to 54° in England North-East. The lowest of the minima, which were observed during the earlier half of the period, varied from 24° in Scotland East and England East to 31° in Scotland North, and to 37° in the English Channel. The lowest grass readings were 17° at West Linton, 18° at Birmingham, Hampstead, and Blackpool, and 19° at Dublin.

Mean Temperature of the Sea. The water was colder than during the corresponding week of last year except on the south-west coast of Ireland, but in many localities its temperature was equal to or above the normal. The mean for the week ranged from 50° at Seafield, and 48° at Scilly and Newquay to 39° at Burnmouth.

Rainfall was above the average in all the eastern districts and in England South-West, below it elsewhere. In Scotland North and West and in Ireland North the deficit was large. At Salcombe on the 29th the fall amounted to as much as 1·1 in.

Bright Sunshine exceeded the normal in Ireland and the western districts of England, as well as in Scotland North, but was less in other parts of the Kingdom. The mean daily duration ranged from 6·2 hours (50 per cent. of the possible duration) in the English Channel district, and more than 5 hours in Ireland and in England South-West to 2½ hours in England East, and to only 2·3 hours (18 per cent. of the possible) in England North-East.

Barometer and Wind.—At the beginning of the week the centre of a deep depression had reached the north-east of England from the south-westward, and the wind, after having blown a strong gale, was subsiding. As this disturbance travelled away to Scandinavia and became less deep, an anticyclone advanced from the south-westward over these Islands and finally increased in intensity and passed eastward to the Continent. During the latter half of the week depressions arrived over these Islands from the southward, causing the wind to increase somewhat in force from the eastward, and on Friday a deep disturbance extended over the Kingdom from the Atlantic. Its centre, however, remained on the ocean, and by Saturday it had receded considerably to the westward again. Under its influence the wind increased decidedly from the Eastward on all our coasts, but only reached gale force on a few exposed spots. At the close of the period a small secondary depression advanced from the Bay of Biscay to Cornwall and Wales, and occasioned a slight gale from S. and S.W. in the eastern half of the Channel.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 51.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very light	Moderate	Heavy	Moderate	Heavy	Heavy	Light	Moderate	Moderate	Light	Moderate	Moderate
	Sunshine ...	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 4 weeks from March 2nd, 1913.	Warmth ...	0 * 1	0 * 1	1 * 1	2 * 0	2 * 0	2 * 0	1 * 1	1 * 2	1 * 0	1 * 1	1 * 1	2 * 0
	Rainfall ...	3 * 1	2 * 0	2 * 1	1 * 0	3 * 0	2 * 0	3 * 1	3 * 0	2 * 0	3 * 1	2 * 0	2 * 0
	Sunshine ...	1 * 0	1 * 0	1 * 1	0 * 1	1 * 1	0 * 1	1 * 1	1 * 0	0 * 1	1 * 1	0 * 1	0 * 2

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(29300—24.) Wt. 173—804. 450. 4/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*50*	*26th*	*35*	*23, 24*	*45·6*	*38·4*	*41·9*	—	*10*	*14*							*2*	*0·33*	—	*4·0*	—	*32*	—	*Baltasound.*
a, Islands .. *a* Lerwick	49	25th	34	24, 25	45·3	38·3	41·7	+ 2·3	9	15			40·1				3	0·41	—	3·7	- 0·3	29	- 2	Deerness.
a Stornoway	52	29th	34	24, 25	47·6	37·1	42·2	+ 1·4	22	14							3	0·08	- 0·76	4·4	+ 0·3	35	+ 3	Stornoway.
a Castlebay, Barra Isd.	*49*	*29th*	*35*	*24th*	*47·0*	*39·7*	*43·2*	*- 0·5*	*18*	*6*							*2*	*0·03*	—	*6·5*	—	*52*	—	*Castlebay.*
a Wick	50	25th	32	24, 25	44·1	36·3	40·1	- 0·6	6	21							3	0·57	+ 0·09					
b, Main- *p* Strathpeffer ..	57	29th	33	26th	49·3	35·7	42·3	+ 1·7	29	18							3	0·19	- 0·31	4·6	+ 1·1	37	+ 8	Strathpeffer.
land. *p* Glencarron ..	53	29th	31	24th	46·4	34·9	40·5	+ 0·9	12	27							2	0·38	- 1·20					
p Fort Augustus..	56	29th	33	26th	49·1	37·3	43·0	+ 2·4	27	13							2	0·20	- 0·51	4·2	+ 1·2	33	+ 9	Fort Augustus.
p Fort William ..	57	29th	33	26th	49 3	35·6	42·4	+ 0·6	28	17							2	0·04	- 1·28					
1. SCOTLAND, E.																								
p Gordon Castle.. S	56	25, 29	34	24th	47·7	37·0	42·2	+ 0·5	22	14	2	22	38·4	-1·5	39·1	-0·4	—	—	—	3·2	—	25	—	Crathes S.
a Nairn	56	29th	29	26th	48·9	33·0	40·7	- 0·2	19	35							3	0·56	+ 0·08	*3·6*	—	*29*	—	*Gordon Castle.*
a Aberdeen ..	54	25th	32	25th	46·0	35·9	40·8	- 0·5	11	23					40·0	-0·3	4	0·30	- 0·08	4·4	—	35	—	Nairn.
a Balmoral ..	50	25, 29	25	26th	45·6	32·3	38·8	+ 1·4	10	35	3	22					4	0·88	+ 0·37	3·3	- 1·0	26	- 8	Aberdeen.
p Crieff	52	29th	32	26th	45·9	34·3	39·9	- 1·9	11	28							4	1·45	+ 0·85					Balmoral.
a Leith	51	25th	31	25, 26	46·9	34·7	40·6	- 1·9	14	28							4	0·88	+ 0·26	2·7	—	21	—	Balruddery.
p West Linton .. S	51	29th	24	25th	43·7	31·0	37·2	- 2·1	5	39	4	17					3	0·34	+ 0·03					
p Marchmont .. S	52	25th	29	25th	44·9	33·4	39·0	- 1·2	8	31	4	24	38·1	-1·6			3	0·58	—	*3·5*	—	*28*	—	*West Linton.*†
2. ENGLAND, N.E.																	4	0·41	- 0·13	3·0	- 0·9	24	- 7	Marchmont.
a Alnwick Castle ..	53	25th	29	25th	46·6	34·4	40·3	- 0·9	13	28	4	25	38·7	-1·1	40·2	-0·1	5	0·71	+ 0·19	2·4	—	19	—	Cockle Park.
a Shields	52	25th	30	26th	45·9	34·6	40·1	- 1·7	11	28							4	0·64	+ 0·26					
p Durham	50	25, 29	28	25th	45·4	33·6	39·3	- 1·9	10	30	3	20					5	0·57	+ 0·20	2·2	- 1·7	18	-14	Durham.
a, North .. *a* Rounton	52	29th	29	25th	47·6	34·1	40·7	- 0·3	16	31	5	24	40·0				4	0·45	+ 0·00					Rounton.
a West Witton ..	*49*	*25th*	*26*	*25th*	*45·1*	*32·1*	*38·4*	—	*9*	*35*	3	23	38·5		38·9		*5*	*1·14*	—					*West Witton.*
p Scarborough ..	50	25th	37	23, 25, 26	46·3	38·0	42·0	- 0·3	12	11					43·0†		5	0·54	+ 0·13	2·3	—	18	—	Scarborough.
p York	53	29th	32	25th	47·1	37·1	42·0	- 0·8	14	14			41·0	-0·5	42·1	+0·6	5	0·52	+ 0·14	1·7	- 2·0	14	-16	York.
a Spurn Head	49	23rd	36	28th	45·7	38·0	41·7	- 0·6	10	16	4	22	41·3	-0·1	42·0	+0·6	—	—	—	*1·2*	—	*10*	—	*Hull.*
b, South .. *a* Lincoln	54	29th	33	28th	49·4	36·4	42·7	- 0·1	28	16			40·3	-0·9	41·4	+0·1	5	0·39	+ 0·11	*2·1*	—	*17*	—	*Spurn Head.*
a Fulbeck	50	29th	33	25, 28	47·9	36·0	41·8	- 1·0	17	24	4	22	42·6	-0·2	43·1	+0·4	3	0·52	+ 0·18					Lincoln.
3. ENGLAND, E.																	6	0·80	+ 0·44	2·7	—	21	—	Rauceby.
p Cromer	55	23rd	37	25th	48·4	39·6	43·9	+ 2·1	23	7	1	30	44·1	+1·2	43·9	+1·3	—	—	—	2·6	—	21	—	Skegness.
p Little Massingham ..	54	23rd	32	25th	49·7	35·4	42·3	- 0·3	30	18	5	20					—	—	—	*2·4*	—	*19*	—	*Lowestoft.*
a, North .. *a* Yarmouth ..	54	23rd	37	24, 25	48·4	39·6	43·9	+ 2·2	23	7			43·9	+0·9	45·0	+1·1	5	0·31	—	3·0	—	24	—	Cromer.
a Norwich	55	23rd	29	25th	50·1	36·7	43·2	+ 0·9	31	15	4	23	42·2				6	0·32	- 0·08	2·5	- 1·7	20	-13	Lit. Massingham
p Gelderston	53	23, 29	33	24th	49·7	38·3	43·8	+ 1·3	28	10							5	0·51	+ 0·17	2·6	—	21	—	Yarmouth.
p Cambridge	56	23, 29	24	25th	51·4	35·3	43·1	- 0·1	36	19	5	20	43·7	+0·6	44·7	+1·2	4	0·35	+ 0·04	*2·3*	—	*18*	—	*Norwich.*
a Felixstowe ..	*51*	*23rd*	*34*	*24th*	*47·9*	*40·3*	*44·0*	*+ 1·2*	*21*	*5*							4	0·31	—	2·8	- 1·7	22	-12	Gelderston.
a Clacton-on-Sea ..	52	27th	36	24, 25	47·9	39·7	43·7	+ 1·3	22	6	1	30	43·9	+0·7	45·2	+0·8	*6*	*0·29*	—	*2·3*	—	*18*	—	Cambridge.
b, South .. *a* Rothamsted ..	54	23, 29	28	25th	50·9	35·0	42·7	+ 0·3	34	20							5	0·39	—	1·7	—	14	—	*Felixstowe.*
a Shoeburyness ..	*54*	*29th*	*33*	*25th*	*49·9*	*39·1*	*44·3*	*+ 0·4*	*28*	*8*	4	24	44·6	+1·5			5	0·50	+ 0·10	3·0	- 1·2	24	-10	Clacton.
p Tottenham	56	29th	30	25th	49·9	37·7	43·6	+ 0·1	29	12	4	25			45·0	+1·6	*6*	*0·45*	*+ 0·19*	3·6	—	*21*	—	Rothamsted.
4. MIDLAND COUNTIES.																	5	0·49	—	1·9	—	15	—	*Southend.*
a Harrogate	50	29th	29	25th	45·0	33·7	39·2	- 2·1	8	30	4	24	39·6	-0·3	41·1	+1·0	—	—	—	1·9	—	15	—	Tottenham.
a Bawtry	53	25, 29	30	25, 29	49·4	33·7	41·3	- 1·5	21	32	4	23	39·5	-0·9	40·7	-0·1	—	—	—	*1·2*	—	*10*	—	*Huddersfield.*
p Buxton	*48*	*27, 28*	*28*	*25th*	*45·9*	*33·6*	*39·6*	*0·0*	*11*	*31*	5	23	42·1		42·4		5	0·80	+ 0·33	1·6	—	13	—	Harrogate.
a, East .. *a* Nottingham	53	23rd	31	25th	49·3	35·0	41·9	- 0·8	20	28	4	24	39·4	-0·4	41·6	+1·0	4	0·49	+ 0·16	2·2	- 1·5	18	-12	Worksop.
p Birmingham, Edgbsn.	53	27th	35	25, 26	49·1	36·4	42·6	+ 0·1	28	16	3	23	41·2	+0·2	41·0	+0·5	*3*	*1·02*	*+ 0·18*	*2·3*	—	*18*	—	*Buxton.*
a Raunds	56	23rd	32	25th	51·1	35·1	42·9	+ 0·5	35	19	4	24	41·0	-0·3	43·5	+0·6	4	0·63	+ 0·29	2·3	—	18	—	Nottingham.
p Oxford	55	27th	30	25th	51·1	36·0	43·3	- 0·2	34	17	3	25	42·3		44·4		3	0·61	+ 0·20	2·9	—	23	—	Birmingham.
a Cheadle	52	26, 29	30	25th	49·3	33·9	41·4	+ 0·1	20	32	4	24					4	0·51	—					Raunds.
p Shrewsbury ..	55	27th	27	25th	52·3	33·4	42·6	- 0·7	40	24	3	24	40·1	-0·4	41·8	+1·1	4	0·54	+ 0·23	3·5	- 0·7	28	- 5	Oxford.
b, West .. *a* Hereford ..	55	23, 27	28	25th	52·1	34·1	42·8	- 0·7	39	22	4	24					—	—	—	1·5	—	12	—	Sheffield.
a Cirencester ..	53	27th	30	25th	49·7	35·0	42·1	0·0	30	20	5	28					3	0·66	+ 0·18					Cheadle.
a Bath	56	27th	30	25th	52·6	35·0	43·5	- 0·1	40	20	4	24					2	0·60	—					Shrewsbury.
5. ENGLAND, S.E.											4	22					4	1·00	+ 0·61					Hereford.
p Kew	57	29th	29	25th	50·9	37·7	44·1	+ 0·3	33	12	1	30	42·5		43·5		4	0·68	+ 0·26	5·3	+ 1·0	43	+ 8	Cirencester.
a Marlborough ..	53	27th	26	25th	50·3	32·9	41·3	- 0·4	23	36	4	23	44·4	+0·3	46·0	+1·4	2	0·60	+ 0·13	5·5	—	43	—	Bath.
a Margate	54	29th	37	24th	49·7	41·0	45·2	+ 1·9	27	3	3	24	44·8	+2·4	46·4	+2·3	—	—	—					Canterbury
a Wisley, Surrey ..	56	29th	27	25th	51·0	36·0	43·3	- 0·7	34	17	5	23	43·0	+0·6	45·0	+1·3	4	0·40	—	1·7	- 2·3	14	-19	Kew.
a Swarraton											4	22			46·0		3	0·90	+ 0·40	4·5	+ 0·6	36	+ 5	Marlborough.
p Salisbury	**54**	**27th**	**28**	**25th**	**50·6**	**34·0**	**42·1**	—	**34**	**22**	0	34	45·2	+2·7	46·0	-2·8	5	0·50	+ 0·18	3·1	- 1·3	25	-11	Margate.
a Tunbridge Wells ..	56	29th	32	25, 26	50·1	36·4	43·1	0·0	31	16	4	21	43·3	+0·8	44·5	+1·1	4	0·64	—	2·6	—	21	—	Wisley
a Dungeness	53	29th	34	24th	50·6	40·9	45·6	+ 2·4	30	3	1	29	45·6	+2·1	46·2	+2·0	—	—	—	3·5	—	28	—	Worthing.
p Hastings.. ..	53	29th	36	25th	50·4	41·0	45·6	+ 1·5	29	3	1	24	44·0				**5**	**1 13**	—					*Salisbury.*
p Southampton ..	55	26th	32	25th	51·9	38·0	44·7	- 1·1	36	11	4	24	44·0				6	0·93	+ 0·47	2·7	- 1·8	22	-14	Tunbridge Wells
a Ventnor	54	28th	38	24th	51·3	40·9	46·0	+ 0·8	33	3	3	27	42·9	+0·8			3	0·56	+ 0·21	3·6	—	29	—	Littlestone.
											0	31	45·8		45·6		4	0·56	+ 0·09	3·6	- 1·0	29	- 8	Southampton
											2	25					5	0·51	+ 0·07	*3·4*	*- 1·5*	*27*	*-12*	*Hastings.*
																	4	0·26	- 0·15	4·5	- 0·7	36	- 5	Ventnor.
											2	29	45·5	+1·1	47·0	+1·5	—	—	—	*4·5*	—	*36*	—	*Portsmouth.*
													46·3	—	46·8	—	—	—	—	3·1	- 1·8	25	-14	Eastbourne.
													44·1		45·1		—	—	—	*4·8*	—	*39*	—	*Bournemouth.*
LONDON.											1	28			45·3		—	—	—	*3·5*	—	*28*	—	*Brighton.*
a Westminster ..	*56*	*29th*	*34*	*25th*	*51·4*	*40·4*	*45·7*	*+ 1·9*	*33*	*4*	2	27					*5*	*0·45*	*+ 0·09*	*1·4*	*- 1·4*	*11*	*-11*	*Westminster.*
a Greenwich ..	*57*	*29th*	*29*	*25th*	*51·6*	*37·1*	*44·1*	*- 0·5*	*35*	*14*	5	20					*5*	*0·39*	*+ 0·03*	*1·9*	*- 1·9*	*15*	*-15*	*Greenwich.*
a Hampstead ..	*54*	*29th*	*32*	*25th*	*49·1*	*37·1*	*43·9*	—	*27*	*14*	5	18					*5*	*0·53*	—	*1·6*	—	*13*	—	*Hampstead.*
a Camden Square ..	*56*	*29th*	*30*	*25th*	*52·1*	*36·4*	*44·0*	—	*38*	*16*	5	24					*5*	*0·48*	—	*1·5*	—	*12*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	55	29th	34	25th	49·3	36·9	42·9	+ 1·0	28	14							2	0·06	- 0·66					
p Glasgow	52	29th	35	23, 24	47·4	36·9	42·0	+ 0·3	15	14	3	27					2	0·27	- 0·25	2·8	- 0·4	22	- 4	Glasgow.
p Rothesay .. S	55	29th	34	25, 26	49·9	37·0	43·3	+ 0·8	30	14					42·3	+0·1	2	0·02	- 0·69					
a Kilmarnock .. S	55	29th	30	24th	49·7	33·7	41·5	- 0·6	22	33							2	0·23	—	*4·2*	—	*33*	—	*Kilmarnock.*
a Colmonell ..	56	29th	32	25th	50·4	35·1	42·5	- 0·1	32	19	4	27					2	0·31	- 0·38					
p Dumfries .. S	56	29th	30	25th	48·1	35·1	41·4	- 1·0	17	27	4	25	40·1		41·1		2	0·31	- 0·29	*3·9*	—	*31*	—	*Dumfries.*
p Cally, Gatehouse S	54	29th	30	24, 26	49·0	33·9	41·2	- 0·9	20	32							3	0·57	- 0·23					
b I. OF MAN																								
p Douglas	53	29th	34	23rd	47·4	37·7	42·4	- 0·2	21	12	1	30					3	0·36	- 0·27	5·6	+ 0·7	44	+ 5	Douglas.
											4	21	38·9	-0·7	41·1	+0·7	—	—	—	*2·4*	—	*19*	—	*Burnley.*
											4	27					—	—	—	5·2	—	41	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	56	29th	31	24th	48·6	34·1	41·1	- 0·3	18	31	4	26	41·1		42·9		3	0·28	- 0·33	4·0	—	32	—	Aspatria.
p Newton Rigg ..	54	29th	29	25th	46·7	32·9	39·6	- 1·1	13	34	6	22	39·9	-1·1	40·5	-0·1	4	0·45	- 0·09	2·4	- 1·7	19	-13	Newton Rigg.
p Stonyhurst	52	29th	30	25th	46·9	35·6	41·1	- 0·5	14	25	5	22					4	0·43	- 0·30	1·6	- 2·4	13	-19	Stonyhurst.
p Blackpool	55	29th	29	25th	49·0	34·3	41·4	- 1·0	20	30	2	18	41·3		43·7		2	0·19	- 0·31	3·7	- 0·3	29	- 3	Blackpool.
p Manchester (Whit. Pk.)	52	29th	30	25th	49·3	36·6	42·8	- 0·5	28	15							4	0·29	- 0·18	*2·1*	*- 0·7*	*17*	*- 5*	*Whit. Park.*
a Liverpool (Bidston) ..	54	29th	34	25, 26	49·1	36·1	42·4	- 1·5	28	17							3	0·31	- 0·10	*4·7*	—	*37*	—	*Liverpool.*
a Hawarden Bridge ..	55	29th	30	25th	50·6	35·3	42·7	- 1·5	33	19	5	20	40·4	-1·7	42·4	0·0	4	0·45	+ 0·12	*4·2*	*0·0*	*33*	*0*	*Southport.*
b, NORTH WALES.											1	30	41·1	+0·3	43·2	+0·9	—	—	—	*1·6*	—	*13*	—	*Manchester (City).*
p Llandudno	52	28th	34	25th	49·7	35·9	42·6	- 1·4	30	17							3	0·06	- 0·41	5·3	+1·1	42	+ 9	Llandudno.
a Holyhead	49	27th	35	25, 26	46·3	37·1	41·6	- 2·3	12	19							3	0·19	- 0·36	*6·2*	—	*49*	—	*Holyhead.*
p Bettws-y-Coed ..	52	25, 28, 29	29	25th	50 7	32·4	41·3	- 2·6	24	38	2	30	40·4	-1·1	43·9	+0·9	2	0·76	—	5·2	—	41	—	Bettws-y-Coed.
																	—	—	—	6·3	—	50	—	Aberdovey.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				5·9	—	47	—	Aberystwyth.
a Llangammarch Wells	55	27th	24	25th	50·7	31·3	40·7	− 0·9	24	41	6	20	40·6	−1·4	44·0	+0·8	4	0·89	—	4·8	—	39	—	Llangammarch
a Pembroke	53	29th	38	25, 26	50·1	39·7	44·8	+ 1·0	29	6	•	•	•	•	•	•	3	0·46	− 0·01	4·7	− 0·1	38	− 1	Pembroke.[Wells
p Cardiff	53	24, 27	32	27th	51·4	35·9	43·4	− 1·2	35	17	3	25	43·5	+2·2	44·5	+1·5	3	0·68	+ 0·04	*5·4*	—	*44*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	55	27th	35	25th	52·4	36·9	44·4	− 0·1	38	14	2	29	•	•	•	•	3	0·73	+ 0·21	*5·6*	—	*45*	—	*Clifton.*
a Shaftesbury	52	23rd	32	26th	49·0	35·0	41·8	− 0·9	29	28	•	•	42·8	•	44·2	•	3	0·83	+ 0·33	•	•	•	•	Shaftesbury.
a Arlington	52	27th	33	27th	49·4	35·9	42·5	− 0·1	29	17	•	•	•	•	•	•	3	0·65	− 0·12	•	•	•	•	Arlington.
a Newquay	*54*	*27th*	*34*	*25th*	*50·7*	*38·6*	*44·5*	− *0·6*	*32*	*10*	•	•	45·1	•	•	•	*3*	*0·75*	+ *0·27*	6·4	+ 1·6	52	+13	Newquay.
a Cullompton	54	23, 26, 27	30	24, 25, 27	52·3	33·1	42·4	− 1·6	40	25	6	26	44·4	•	•	•	4	0·87	+ 0·34	3·7	− 0·7	30	− 5	Cullompton.
a Portland	51	27th	39	26th	48·7	41·7	45·1	+ 0·5	23	1	•	•	•	•	•	•	3	0·46	—	*4·7*	—	*38*	—	*Weymouth.*
p Plymouth	54	23, 27	35	25th	51·7	38·8	45·1	0·0	35	9	4	21	45·2	0·0	•	•	4	0·89	+ 0·32	5·6	+ 0·8	45	+ 7	Plymouth.
p Falmouth	53	27th	39	25th	49·7	41·9	45·7	+ 0·6	26	0	•	•	•	•	•	•	5	0·69	+ 0·02	4·7	− 0·3	38	− 2	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	?	?	37	28th	?	38·6	?	?	—	—	•	•	•	•	•	•	1	0·06	− 0·41	•	•	•	•	• •
a Blacksod Point ..	52	29th	36	24th	49·1	38·9	43·9	− 0·8	26	9	•	•	•	•	•	•	3	0·32	− 0·47	•	•	•	•	• •
p Markree Castle ..	56	29th	27	24th	51·4	32·9	41·9	− 0·9	26	37	5	23	42·9	•	43·5	•	1	0·14	− 0·53	5·8	+ 1·9	46	+15	Markree Castle.
a Birr Castle	55	27th	29	24, 25	52·3	34·0	42·9	+ 0·2	40	22	•	•	•	•	•	•	2	0·25	− 0·26	*5·1*	+ *1·0*	*41*	+ *8*	*Birr Castle.*
b, East .. { *p* Armagh	53	25, 29	31	24th	49·9	35·7	42·6	− 0·1	31	18	2	25	41·5	−1·7	42·9	−0·8	1	0·19	− 0·31	4·6	+ 0·8	37	+ 6	Armagh.
a Donaghadee	50	29th	34	24, 25	47·6	37·6	42·5	− 0·7	22	12	•	•	•	•	•	•	2	0·38	− 0·09	•	•	•	•	• •
											4	19	43·2	−0·8	44·4	−0·2	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											5	19	•	•	•	•	—	—	—	5·4	+ 0·9	43	+ 7	Phœnix Park.
p Dublin, City	52	23, 25	34	24, 25	50·6	37·6	43·9	− 1·0	32	12	1	30	•	•	•	•	3	0·54	+ 0·11	•	•	•	•	Dublin City.
a, East .. { *a* Kilkenny	54	29th	29	25th	52·0	35·7	43·6	− 0·4	38	18	•	•	•	•	•	•	4	0·55	+ 0·06	•	•	•	•	• •
a Waterford	54	29th	31	25th	51·4	36·9	43·9	− 0·3	35	14	•	•	•	•	•	•	4	0·57	− 0·04	•	•	•	•	• •
{ *a* Birr Castle	55	27th	29	24, 25	52·3	34·0	42·9	+ 0·2	40	22	•	•	•	•	•	•	2	0·25	− 0·26	5·1	+ 1·0	41	+ 8	Birr Castle.
a Foynes	54	25, 26	32	24, 25	51·6	35·0	43·1	− 1·7	37	20	•	•	•	•	•	•	4	0·54	− 0·06	•	•	•	•	• •
a Cahir	54	29th	30	25th	51·9	35·6	43·5	− 0·3	37	18	•	•	•	•	•	•	4	0·60	—	•	•	•	•	• •
b, West .. { *a* Killarney	58	29th	32	24th	53·6	38·5	45·8	+ 0·8	41	10	•	•	•	•	•	•	5	0·71	− 0·24	•	•	•	•	• •
a Valencia	56	29th	35	24, 25	51·7	40·0	45·7	− 0·2	34	6	•	•	•	•	•	•	5	1·46	+ 0·49	4·9	+ 0·4	40	+ 3	Valencia.
a Roche's Point	53	29th	36	24, 25	50·0	40·1	44·9	− 0·4	28	5	•	•	•	•	•	•	6	0·72	+ 0·08	5·8	—	47	-	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	27th	37	23rd	51·6	41·7	46·5	− 0·2	33	1	•	•	•	•	•	•	3	0·60	+ 0·12	5·5	+ 0·5	44	+ 4	Scilly.
a Jersey, St. Aubins ..	57	23rd	38	24th	54·9	42·0	48·3	+ 2·2	44	0	•	•	•	•	•	•	4	0·17	− 0·33	6·4	+ 1·1	52	+ 9	St. Heliers.
a Guernsey (Villa Carey)	55	25th	40	27th	53·0	43·3	48·0	+ 1·8	42	0	1	30	47·4	+1·1	47·6	+1·4	4	0·50	− 0·05	6·8	+ 1·5	55	+12	Guernsey.*

Additional Sunshine Means:—*Bognor, 4·0 hrs. 32 °/₀; Ramsgate, 3·4 hrs 27 °/₀; Rhyl, 5·3 hrs. 42 °/₀; Salcombe, 5·2 hrs. 42 °/₀; Tenby, 4·9 hrs. (−0·2) 40 °/₀ (− 1 °/₀); Torquay, 3·6 hrs. (−1·4) 29 °/₀ (−12 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, March 29th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°	—			°	°	°	
SCOTLAND, N. ..	{ Lerwick	43	41	42·5	0·0	SCOTLAND, W. ..	{ Lamlash	45	42	43·2	−0·7
	{ Kirkwall	43	41	42·5	0·0		{ Ballantrae	44	42	42·9	−1·1
	{ Wick	?44	?43	?43·3	0·0	ENGLAND, N.W. ..	Port Erin	45	43	44·4	+0·1
	{ Cromarty	42	39	41·2	0·0		{ Newquay	48	48	48·0	+0·6
SCOTLAND, E. ..	{ Pennan Bay	43	41	41·8	−0·1	ENGLAND, S.W. ..	{ Scilly	49	48	48·4	—
	{ Aberdeen, Cove Bay	42	41	41·5	−0·6		{ Plymouth‡	48	47	47·4	+0·4
	{ Burnmouth, Berwick	40	39	39·4	−1·2		{ Salcombe	49	46	47·2	+1·2
ENGLAND, N.E. ..	{ Scarborough	43	40	42·0	+0·3		{ Sheephaven	46	44	44·9	−0·8
	{ Shipwash Lightship	47	45	46·0	+4·6	IRELAND, N.W. ..	{ Teelin	46	44	45·0	−0·9
ENGLAND, E. ..	{ Margate‡	47	46	46·1	+2·9	IRELAND, S.W. ..	{ Cleggan	47	44	46·0	+0·2
ENGLAND, S.E. ..	Eastbourne‡	46	45	45·3	+1·8		{ Seafield	52	48	49·9	+2·2
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in *italic* type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTEENTH WEEK—March 23rd to March 29th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	57	31	47·3	36·5	41·7	+ 1·3	15	− 2	22	− 5	3	− 1	0·27	−0·64	4·2	+0·3	34	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	56	24	46·2	34·0	39·9	− 0·8	12	− 10	30	+ 1	4	0	0·68	+0·19	3·3	−0·9	26	− 7
2. ENGLAND, N.E.	54	28	46·9	35·8	41·2	− 0·6	14	− 9	24	+ 1	5	+ 2	0·57	+0·19	2·3	−2·4	18	−19
3. ENGLAND, EAST ...	56	24	49·6	37·5	43·4	+ 0·6	29	− 1	13	−11	5	+ 2	0·40	+0·04	2·5	−2·3	20	−19
4. MIDLAND COUNTIES ...	56	27	50·1	34·7	42·1	− 0·6	31	− 1	20	− 5	4	0	0·65	+0·26	3·1	−1·2	25	−10
5. ENGLAND, S.E.	57	26	50·7	37·9	44·1	+ 0·1	32	0	11	− 5	4	+ 1	0·64	+0·28	3·3	−1·5	27	−12
Western.																		
6. SCOTLAND, WEST ...	56	30	48·9	35·8	42·2	+ 0·1	27	+ 5	17	− 4	2	− 2	0·27	−0·49	4·2	−0·3	33	− 2
7. ENGLAND, N.W.	56	29	48·8	35·0	41·7	− 0·9	19	− 5	28	+ 9	3	− 1	0·34	−0·22	4·2	+0·2	33	+ 1
8. ENGLAND, S.W.	55	24	50·5	37·0	43·6	− 0·6	32	0	14	0	4	0	0·72	+0·13	5·1	+0·3	41	+ 3
9. IRELAND, NORTH ...	56	27	50·1	35·8	42·8	− 0·2	32	+ 6	17	− 1	2	− 3	0·22	−0·43	5·2	+1·0	41	+ 8
10. IRELAND, SOUTH ...	58	29	51·7	37·1	44·1	− 0·5	35	+ 2	14	0	4	0	0·66	−0·02	5·3	+0·5	47	+ 9
11. ENGLISH CHANNEL ...	57	37	53·2	42·3	47·6	+ 1·0	39	+ 2	0	− 4	4	0	0·42	−0·05	6·2	+0·6	50	+ 5

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 4 Weeks, March 2nd to March 29th, 1913.

0. SCOTLAND, NORTH ...	57	21	*	*	*	*	30	− 17	118	− 3	23	+ 3	5·82	+ 1·79	3·1	−0·1	27	0
Eastern.																		
1. SCOTLAND, EAST ...	56	16	*	*	*	*	39	− 28	132	0	22	+ 6	3·59	+ 1·51	4·0	+0·4	34	+ 3
2. ENGLAND, N.E.	57	20	*	*	*	*	73	− 5	97	− 9	20	+ 6	2·44	+ 0·85	3·9	−0·2	33	− 2
3 ENGLAND, EAST ...	58	24	*	*	*	*	127	+ 28	52	− 61	19	+ 6	1·96	+ 0·56	3·7	−0·4	31	− 4
4. MIDLAND COUNTIES ...	58	23	*	*	*	*	110	+ 8	78	− 36	19	+ 6	3·43	+ 1·88	3·4	−0·3	29	− 2
5. ENGLAND, S.E.	57	24	*	*	*	*	123	+ 20	37	− 47	20	+ 8	2·56	+ 0·95	3·7	−0·4	31	− 3
Western.																		
6. SCOTLAND, WEST ...	56	21	*	*	*	*	66	− 3	84	− 13	21	+ 4	4·33	+ 1·16	3·6	−0·1	31	− 1
7. ENGLAND, N.W.	56	21	*	*	*	*	76	0	77	− 10	23	+ 8	4·14	+ 1·98	3·8	+0·2	33	+ 2
8. ENGLAND, S.W.	57	20	*	*	*	*	105	+ 2	50	− 20	21	+ 6	4·40	+ 1·99	3·5	−0·6	30	− 5
9. IRELAND, NORTH ...	58	25	*	*	*	*	83	− 4	87	+ 5	22	+ 4	3·63	+ 1·19	3·7	+0·2	31	+ 1
10. IRELAND, SOUTH ...	58	23	*	*	*	*	109	− 4	67	+ 3	23	+ 7	3·91	+ 1·25	3·8	−0·2	32	− 2
11. ENGLISH CHANNEL ...	57	34	*	*	*	*	151	+ 28	2	− 24	18	+ 2	2·85	+ 0·86	4·3	−0·7	36	− 6

THE YEAR.—Aggregates, &c., for the Period of 13 Weeks, December 31st, 1912, to March 29th, 1913.

0. SCOTLAND, NORTH ...	57	21	*	*	*	*	98	− 9	344	−107	66	0	15·10	+0·11	1·6	−0·3	17	− 4
Eastern.																		
1. SCOTLAND, EAST ...	56	11	*	*	*	*	93	− 42	474	− 35	59	+ 8	8·45	+1·38	2·1	−0·4	22	− 5
2. ENGLAND, N.E.	57	18	*	*	*	*	154	− 4	355	− 52	55	+ 8	6·32	+1·34	2·2	−0·5	23	− 5
3. ENGLAND, EAST ...	58	20	*	*	*	*	234	+ 45	261	−191	52	+ 5	5·51	+0·74	2·4	−0·4	25	− 4
4. MIDLAND COUNTIES ...	58	13	*	*	*	*	221	+ 15	340	−110	53	+ 7	8·22	+2·49	2·0	−0·4	20	− 5
5. ENGLAND, S.E.	57	22	*	*	*	*	262	+ 41	199	−144	50	+ 6	7·52	+1·46	2·6	−0·1	26	− 2
Western.																		
6. SCOTLAND, WEST ...	56	17	*	*	*	*	166	+ 8	277	− 82	59	+ 2	13·27	+1·25	1·8	−0·5	19	− 5
7. ENGLAND, N.W.	58	10	*	*	*	*	183	+ 13	270	− 68	58	+ 7	10·02	+2·19	2·2	−0·1	23	− 1
8. ENGLAND, S.W.	57	19	*	*	*	*	268	+ 14	202	− 67	62	+11	12·91	+3·50	2·4	−0·4	24	− 4
9. IRELAND, NORTH ...	58	21	*	*	*	*	234	+ 22	248	− 51	64	+ 4	10·91	+1·94	2·1	−0·3	21	− 3
10. IRELAND, SOUTH ...	58	22	*	*	*	*	308	+ 9	212	− 17	67	+13	13·70	+3·49	2·2	−0·5	23	− 5
11. ENGLISH CHANNEL ...	60	32	*	*	*	*	416	+ 74	38	− 67	58	+ 1	9·57	+1·67	3·0	−0·4	30	− 4

M.O., April 2, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 53

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* } No. 14. FOURTEENTH WEEK, SUNDAY, MARCH 30TH, TO SATURDAY, APRIL 5TH, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. During the greater part of the period the conditions were dry except in Ireland and the southern and south-western districts of England. In the latter part of the period the dry weather extended to those districts also. There was, however, a great deal of cloud over the eastern half of England, as well as in the English Channel. Lightning was observed at West Linton on the 1st April, and thunder occurred at Tunbridge Wells. On the 3rd thunder was heard at Gordon Castle.

Temperature was above the mean except in Ireland South and the English Channel, the excess being about 1°·5 in some parts of Great Britain. The highest of the maxima were registered on very irregular dates, and ranged from 60° in the Midland Counties and Scotland West to 57° in several districts. The lowest of the minima, which occurred during the earlier half of the period, varied from 23° in Scotland East and 25° in Scotland North to 32° in England North-East and Ireland North, and to 40° in the English Channel. The lowest grass readings were 18° at West Linton, 19° at Balmoral, 20° at Dublin, and 22° at Birmingham. At a depth of both 1 ft. and 4 ft. the temperature of the soil was nearly everywhere above the average, the excess being greatest in the south-east of England.

Mean Temperature of the Sea. On nearly all parts of the coast the water was colder than during the corresponding week of last year, the difference being more than 2° at some stations in the north-east and in the extreme south-west; generally, however, the temperature was above the average. The mean for the week varied from 51° at Seafield and 49° at Scilly to 40°·4 at Burnmouth.

Rainfall was less than the average in all districts, the deficit being large in Scotland and the north-west of England. In some Scottish and English localities the total fall was less than 0·10 in. At Glencarron the week was rainless.

Bright Sunshine exceeded the normal in Ireland, the western districts of England and in Scotland North and East, but was less elsewhere. In Ireland the mean daily duration was about 6½ hours, and in Scotland East about 6¼ hours. In the central, eastern and south-eastern parts of England, however, it was less than 4 hours. The percentage of the possible duration ranged from 50 in Ireland North, and 47 in Ireland South and Scotland East, to 26 in England East.

Barometer and Wind. During the early days of the week depressions of little intensity moved across these Islands in a general easterly direction, and the main wind current was between South and West, but later in the week pressure became high over northern Europe, and a depression which appeared off the west of Ireland travelled to the south-west of France, and the wind shifted to the Eastward. Subsequently the anticyclone extended over our northern districts, at the same time that the French depression increased in depth and moved North-East, and the increased gradient caused strong to high winds from between North and East in the east and south of England.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 55.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland N.	10. Ireland, S.	11. English Channel
Comparison with average for the time of year ...	Warmth ...	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very light	Light	Light	Moderate	Moderate	Moderate	Light	Light	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Abundant	Abundant	Moderate	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 5 weeks from March 2nd, 1913.	Warmth ...	1 * 1	0 * 1	2 * 1	3 * 0	3 * 0	3 * 0	2 * 1	2 * 2	1 * 0	1 * 1	1 * 1	2 * 0
	Rainfall ...	3 * 2	2 * 1	2 * 2	1 * 0	3 * 0	2 * 0	3 * 2	3 * 1	2 * 0	3 * 1	2 * 0	2 * 0
	Sunshine ...	2 * 0	2 * 0	1 * 1	0 * 2	1 * 2	0 * 1	1 * 1	1 * 0	0 * 1	2 * 1	1 * 1	0 * 3

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(29437—24.) Wt. 196—786. 450. 4/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*51*	*3rd*	*35*	*4th*	*46·4*	*38·1*	*42·1*	—	*17*	*11*							*4*	*0·44*	—	*3·1*	—	*23*	—	*Baltasound.*
a, Islands .. *a* Lerwick	50	3rd	35	3, 5	45·7	37·9	41·6	+ 1·6	10	16			41·8				4	0·23	—	3·2	- 1·1	24	- 9	Deerness.
a Stornoway	55	4th	28	1st	50·6	33·6	41·7	+ 0·1	24	33							3	0·09	- 0·68	5·4	+ 0·8	41	+ 7	Stornoway.
a Castlebay, Barra Isd.	*56*	*4th*	*38*	*1st*	*50·3*	*41·0*	*45·4*	*+ 1·0*	*28*	*3*							*3*	*0·28*	—	*9·5*	—	*73*	—	*Castlebay.*
a Wick	51	31st	31	4th	45·7	35·4	40·3	- 1·2	10	24							3	0·33	- 0·14					
b, Mainland. *p* Strathpeffer ..	58	3rd	33	31st	52·3	36·4	44·0	+ 2·3	38	16							1	0·11	- 0·36	6·2	+ 2·2	47	+17	Strathpeffer.
p Glencarron ..	57	4th	27	2nd	51·9	33·7	42·4	+ 1·9	38	23							0	0·00	- 1·43					
p Fort Augustus..	59	3, 4	25	2nd	?53·0	34·6	43·4	+ 1·7	41	21							1	0·02	- 0·61	5·6	+ 2·3	43	+18	Fort Augustus.
p Fort William ..	59	4th	28	2nd	(53·0)	35·0	43·6	+ 1·1	41	20							3	0·15	- 0·99					
1. SCOTLAND, E.																								
p Gordon Castle.. S	56	3rd	32	4th	51·6	35·0	42·9	+ 0·5	36	20	5	23	41·6	+0·6	40·2	-0·1	—	—	—	6·7	—	51	—	Crathes S.
a Nairn	55	30, 3	28	2nd	50·0	32·1	40·6	- 1·2	22	37							2	0·34	- 0·11	*5·6*	—	*43*	—	*Gordon Castle.*
a Aberdeen	53	30, 3	32	4th	50·3	35·1	42·3	+ 0·2	31	19							3	0·28	- 0·05	5·0	—	38	—	Nairn.
a Balmoral ..	53	3, 5	23	3, 5	50·1	28·3	38·7	+ 0·3	23	50	5	19			40·9	-3·1	1	0·05	- 0·42	6·6	+ 2·0	50	+15	Aberdeen.
p Crieff	57	30, 31	28	5th	54·1	34·3	43·7	+ 1·0	44	22							1	0·37	- 0·18					Balmoral.
a Leith	55	31st	30	2nd	51·0	36·4	43·4	+ 0·1	33	16							2	0·16	- 0·42	6·3	—	48	—	Balruddery.
p West Linton .. S	55	3rd	24	2nd	49·3	34·1	40·3	+ 0·4	20	37	1	18					1	0·03	- 0·27					
p Marchmont .. S	55	3rd	31	2nd	51·1	35·4	42·9	+ 1·9	34	18	3	27	42·0	+0·9			2	0·03	—	*2·8*	—	*22*	—	*West Linton.*
																	0	0·00	- 0·52	6·2	+ 2·0	48	+15	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	55	30th	34	2nd	50·7	37 0	43·5	+ 1·6	32	14	2	29	41·7	+0·7	41·5	+0·3	1	0·20	- 0·27	6·9	—	53	—	Cockle Park.
a Shields	54	30th	34	2nd	50·1	35·7	42·8	0·0	31	18							2	0·18	- 0·14					
p Durham	53	30, 3	33	2nd	49·6	36·9	43·0	+ 1·1	28	14	0	32					2	0·23	- 0·12	5·1	+ 1·0	39	+ 8	Durham.
a, North .. *p* Rounton	56	3rd	32	2nd	50·1	36·6	43·0	+ 1·2	30	15	3	26	42·3				4	0·39	- 0·05					Rounton.
a West Witton	*55*	*3rd*	*33*	*31st*	*50·3*	*36·3*	*43·0*	—	*31*	*16*	2	29	41·4		39·5		*4*	*0·25*	—					*West Witton.*
p Scarborough	53	30th	36	2, 3	50·4	39·3	44·6	+ 1·6	30	8					43·0†		1	0·25	- 0·15	3·5	—	27	—	Scarborough.
p York	57	3rd	34	2nd	53·0	39·3	45·8	+ 2·1	38	8			43·0	+0 3	42·6	+0·4	1	0·26	- 0·13	3·0	- 1·0	23	- 8	York.
											3	26	43·0	+0·5	42·7	+0·7	—	—	—	*2·0*	—	*15*	—	*Hull.*
a Spurn Head	52	30th	36	2nd	49·3	39·1	44·0	+ 0·8	26	8							2	0·17	- 0·10	*4·0*	—	*31*	—	*Spurn Head.*
b, South .. *a* Lincoln	57	3rd	34	2nd	52·0	39·0	45·2	+ 1·3	35	8			42·0	-0·7	41·9	-0·4	3	0·15	- 0·18					Lincoln.
a Fulbeck	53	2, 3	33	2nd	50·6	38·6	44·3	+ 0·6	30	10	3	24	43·9	+0·1	43·6	+0·3	3	0·07	- 0·29	3·3	—	25	—	Rauceby.
																	—	—	—	4·2	—	32	—	Skegness.
3. ENGLAND, E.											0	31	45·5	+1·3	44·7	+1·2	—	—	—	*3·4*	—	*26*	—	*Lowestoft.*
p Cromer	57	1st	39	2nd	51·0	41·6	46·1	+ 3·7	30	1							2	0·05	—	3·5	—	27	—	Cromer.
p Little Massingham ..	54	30, 3	34	2, 3	51·0	39·1	44·8	+ 1·1	32	8	3	26												
a, North .. *a* Yarmouth	51	30, 2	37	2nd	48·7	40·7	44·5	+ 1·9	23	4			45·7	+1·5	45·9	+1·2	1	0·20	- 0·19	3·4	- 1·1	26	- 8	Lit. Massingham
a Norwich	56	30th	35	3rd	51·9	39·9	45·6	+ 2·5	34	6	2	28	43·8				3	0·66	+ 0·32	4·3	—	33	—	Yarmouth.
p Geldeston	55	30th	36	2nd	50·9	41·3	45·9	+ 2·5	30	2							2	0·27	—	*3·1*	—	*24*	—	*Norwich.*
																	2	0·55	+ 0·19	3·2	- 1·7	25	-13	Geldeston.
p Cambridge	55	30, 3	31	2nd	52·1	38·6	45·0	+ 0·8	35	10	3	27	44·8	+0·2	45·1	+0·7	1	0·10	- 0·22	3·1	- 1·7	24	-13	Cambridge.
a Felixstowe	*55*	*30th*	*36*	*2nd*	*50·6*	*41·9*	*46·0*	*+ 2·4*	*28*	*0*							*4*	*0·68*	—	*4·2*	—	*33*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	53	30th	36	2nd	49·9	42·0	45·8	+ 2·5	27	0	1	30	45·9	+1·6	45·9	+0·8	3	0·56	—	3·7	—	29	—	Clacton.
a Rothamsted	54	30, 3	32	2nd	51·7	37·4	44·2	+ 0·8	35	13							5	0·13	- 0·25	2·9	- 1·6	23	-13	Rothamsted.
a Shoeburyness	*54*	*30th*	*37*	*2nd*	*50·9*	*41·7*	*46·1*	*+ 1·1*	*30*	*1*	3	24	46·1	+1·7			*4*	*0·63*	+ *0·37*	*3·3*	—	*26*	—	*Southend.*
p Tottenham	55	3rd	35	2nd	52·4	40·6	46·2	+ 1·7	35	4	2	27			45·2	+1·1	2	0·37	—	3·0	—	23	—	Tottenham.
4. MIDLAND COUNTIES.											2	28	41·9	+0·7	41·2	+0·6	—	—	—	*3·3*	—	*25*	—	*Huddersfield.*
a Harrogate	54	3rd	33	2nd	49·9	36·6	42·9	+ 0·7	29	15	4	27	41·2	-0·2	41·4	-0·1	4	0·19	- 0·27	3·5	—	27	—	Harrogate.
a Bawtry	60	3rd	32	31, 2	53·9	36·0	44·5	+ 0·8	43	17	5	23	43·1		43·2		1	0·09	- 0·24	2·7	- 1·3	21	-10	Worksop.
p Buxton	*53*	*31st*	*31*	*2, 3*	*49·1*	*34·3*	*41·3*	*+ 0·9*	*29*	*20*	3	24	41·8	+0·8	41·9	+0·8	*4*	*0·41*	*- 0·33*	*4·7*	—	*36*	—	*Buxton.*
a, East .. *a* Nottingham	55	3rd	31	2nd	51·9	35·3	43·2	- 0·4	37	19	3	23	43·3	+1·0	41·8	+0·4	3	0·05	- 0·29	3·7	—	29	—	Nottingham.
p Birmingham, Edgbsn.	54	3rd	33	2nd	50·1	39·1	44·3	+ 0·9	28	8	3	22	42·5	+0·5	43·8	+0·5	3	0·25	- 0·17	2·9	—	22	—	Birmingham.
a Raunds	55	30, 3	31	2nd	51·6	37·7	44·3	+ 0·9	34	12	3	28	43·2		44·6		2	0·11	—					Raunds.
p Oxford	55	3rd	35	2nd	52·0	40·4	45·9	+ 1·4	34	4	1	28					3	0·30	- 0·02	2·7	- 1·8	21	-14	Oxford.
											2	27	41·9	+0·3	41·9	+0·6	—	—	—	2·9	—	23	—	Sheffield.
a Cheadle	56	4th	33	1, 2	51·7	37·3	44·2	+ 1·8	35	13	4	24					3	0·37	- 0·11					Cheadle.
p Shrewsbury	57	5th	33	31st	53·6	37·6	45·2	+ 0·5	41	12	2	28					3	0·58	—					Shrewsbury.
b, West .. *a* Hereford	56	3rd	29	31st	53·1	38·4	45·4	+ 0·9	39	10	2	25					4	0·22	- 0·17					Hereford.
a Cirencester	54	3rd	29	31st	51·3	36·9	43·8	+ 0·7	34	14	1	29	43·7		44·1		4	0·33	- 0·08	4·4	- 0·2	34	- 2	Cirencester.
a Bath	57	5th	33	2nd	55·1	39·3	46·8	+ 2·1	45	8			46·1	+0·8	46·6	+1·3	3	0·16	- 0·31	5·3	—	41	—	Bath.
5. ENGLAND, S.E.											2	26	46·3	+3·0	46·8	+2·1	—	—	—					Canterbury.
p Kew	54	30th	34	2nd	52·3	40·7	46·2	+ 1·3	35	4	3	24	44·7	+1·3	45·3	+1·1	3	0·35	- 0·01	2·7	- 1·6	21	-13	Kew.
a Marlborough	55	30th	31	2nd	52·0	38·3	44·8	+ 1·9	35	10	2	23			46·4		4	0·36	- 0·12	3·8	- 0·4	30	- 3	Marlborough.
a Margate	53	2nd	35	2nd	49·7	42·3	45·8	+ 1·5	27	0	0	32	46·6	+3·2	46·8	+3·4	5	1·02	+ 0·71	3·6	- 1·1	28	- 8	Margate.
a Wisley, Surrey ..	56	30th	35	2nd	52·6	39·9	46·0	+ 0·8	37	6	2	26	45·0	+1·5	44·9	+0·9	4	0·28	—	3·2	—	25	—	Wisley
											1	27	47·2	+2·7	47·1	+2·4	—	—	—	5·1	—	40	—	Worthing.
p Salisbury	57	31st	30	2nd	53·7	39·0	46·0	+ 2·3	41	8	1	35	44·9				5	0·27	—					*Salisbury.*
a Tunbridge Wells ..	52	30th	32	2nd	49·7	38·9	44·0	- 0·1	27	9	2	27	44·3	+1·1			4	0·58	+ 0·15	2·7	- 2·1	21	16	Tunbridge Wells.
a Dungeness	53	30th	37	2nd	50·6	43·0	46·6	+ 2·5	32	0	2	27					4	0·89	+ 0·54	4·3	—	33	—	Littlestone.
p Hastings..	53	30th	35	2nd	50·6	42·6	46·4	+ 1·4	31	0	1	27	47·1		46·2		6	0·62	+ 0·20	*4·0*	- *1·2*	*31*	- *10*	*Hastings.*
p Southampton	57	30, 3	34	2nd	54·7	41·1	47·6	+ 0·1	43	3	1	27					3	0·20	- 0·24	4·3	- 0·7	33	- 5	Southampton
a Ventnor	56	5th	39	2nd	53·6	42·7	47·9	+ 1·8	41	0							4	0·16	- 0·24	5·3	- 0·2	41	- 2	Ventnor.
											1	27	47·5	+1·9	47·5	+1·3	—	—	—	*5·5*	—	*43*	—	*Portsmouth.*
													47·2		47·3		—	—	—	4·0	- 1·2	31	- 9	Eastbourne.
													46·0		45·9		—	—	—	*5·6*	—	*43*	—	*Bournemouth.*
LONDON.											1	27			46·0		—	—	—	*4·9*	- *0·2*	*38*	- *3*	*Brighton.*
a Westminster	*55*	*30th*	*34*	*2nd*	*52·9*	*41·4*	*46·9*	*+ 2·6*	*37*	*2*	1	29					*4*	*0·34*	*- 0·01*	*2·6*	*- 0·5*	*20*	- *4*	*Westminster.*
a Greenwich	*57*	*30th*	*33*	*2nd*	*53·4*	*39·3*	*46·0*	*+ 0·8*	*39*	*8*	3	25					*3*	*0·33*	*- 0·02*	*3·0*	- *1·2*	*23*	- *9*	*Greenwich.*
a Hampstead	*53*	*30th*	*33*	*2nd*	*50·7*	*39·6*	*44·9*	—	*30*	*7*	4	23					*4*	*0·45*	—	*3·2*	—	*25*	—	*Hampstead.*
a Camden Square ..	*57*	*3rd*	*32*	*2nd*	*54·1*	*39·1*	*46·2*	—	*42*	*3*	2	31					*4*	*0·45*	—	*2·9*	—	*23*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	60	5th	28	1st	53·3	35·6	44·0	+ 1·2	41	18							4	0·23	- 0·44					
p Glasgow .. .. S	54	30, 3	33	1, 2	51·4	37·1	43·9	+ 1·5	34	14	4	25					2	0·17	- 0·33	4·2	+ 0·6	32	+ 5	Glasgow.
p Rothesay	59	3rd	31	1, 2	54·6	37·1	45·4	+ 2·0	44	14					42·9	+0·2	3	0·14	- 0·55					
a Kilmarnock ..	57	3rd	30	1st	52·1	36·7	44·0	+ 1·3	36	15							3	0·19	—	*5·3*	—	*41*	—	*Kilmarnock.*
a Colmonell ..	58	3rd	27	1st	52·7	35·9	43·9	+ 0·4	39	17	4	23					2	0·20	- 0·44					
p Dumfries ..	58	3rd	29	2nd	51·7	37·3	44·2	+ 1·2	35	13	3	26	43·6		42·4		3	0·23	- 0·33	*4·0*	—	*31*	—	*Dumfries.*
p Cally, Gatehouse	58	3rd	28	2nd	51·9	37·4	44·3	+ 1·5	35	13							3	0·27	- 0·49					
b I. OF MAN.																								
p Douglas	58	3rd	35	2nd	50·9	39·4	44·9	+ 1·5	31	7	2	29					3	0·18	- 0·43	5·6	+ 0·3	43	+ 2	Douglas.
7. *a*, ENGLAND, N.W.											2	27	41·8	+1·1	41·4	+0·6	—	—	—	*5·3*	—	*41*	—	*Burnley.*
p Aspatria	58	3rd	34	4th	52·6	38·1	45·0	+ 2·7	37	11	1	29					—	—	—	4·9	—	38	—	Hoylake.
p Newton Rigg	56	3rd	30	2nd	51·3	38·3	43·4	+ 1·7	34	16	3	27	44·4		43·3		1	0·09	- 0·48	5·0	—	39	—	Aspatria.
p Stonyhurst	54	3rd	32	31st	50·9	38·7	44·5	+ 2·0	31	9	3	23	42·9	+0·8	41·3	0·0	1	0·03	- 0·50	4·9	+ 0·5	38	+ 4	Newton Rigg.
p Blackpool	58	5th	34	31, 2	53·1	37·9	45·1	+ 1·8	39	11	3	23					3	0·20	- 0·47	4·9	+ 0·8	38	+ 4	Stonyhurst.
p Manchester (Whit. Pk.)	57	3rd	33	2nd	53·1	39·3	45·9	+ 1·5	39	8	3	28	43·6		43·9		3	0·12	- 0·35	4·9	+ 0·6	38	+ 5	Blackpool.
a Liverpool (Bidston) ..	55	3, 4, 5	36	31, 2	52·6	37·6	44·7	+ 0·2	37	12	3	27					3	0·27	- 0·19	*4·8*	+ *1·7*	*37*	+*14*	*Whit. Park.*
a Hawarden Bridge ..	56	31, 2, 3	36	31st	54·0	39·9	46·6	+ 1·3	41	6	5	27	43·2	-0·1	43·1	-0·2	3	0·22	- 0·18	*4·1*	—	*32*	—	*Liverpool.*
											0	33	42·4	+0·5	43·5	+0·6	2	0·32	0·00	*4·6*	*0·0*	*35*	*0*	*Southport.*
b, NORTH WALES.																	—	—	—	*4·6*	—	*35*	—	*Manchester (City).*
p Llandudno	55	31st	37	2nd	52·0	40 7	46·1	+ 1·3	34	4														
a Holyhead	50	31, 3, 5	38	2nd	48·7	41 3	44·8	+ 0·2	23	2							3	0·31	- 0·13	4·2	- 0·3	32	- 2	Llandudno.
p Bettws-y-Coed ..	55	5th	?35	2nd	52 3	39·0	45·3	+ 0·6	36	8	0	34	43·6	+1·5	44·1	+0·7	2	0·04	- 0·48	*6·0*	—	*46*	—	*Holyhead.*
																	3	0·39	—	5·5	—	42	—	Bettws-y-Coed.
																	—	—	—	5·2	—	40	—	Aberdovey.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°|	°	Day°	Day°	°	°	°	°	°	°		*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				4·8	—	37	—	Aberystwyth.
a Llangammarch Wells	55	3,5	31	2nd	52·0	36·7	44·0	+ 1·4	36	15	?2	25	42·7	0,0	44·0	+0·4	3	0·77	—	4·6	—	36	—	Llangammarch
a Pembroke	58	5th	40	30, 2, 4	51·1	41·3	46·0	+ 1·4	31	2	*	*	*	*	*	*	5	0·44	- 0·04	5·1	- 0·1	40	- 1	Pembroke.[Wells
p Cardiff	55	31, 5	37	31, 1, 2	52·7	39·4	45·7	0·0	37	7	2	29	45·5	+3·8	45·1	+1·5	3	0·16	- 0·46	*6·0*	—	*47*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	56	31, 3, 5	38	31st	54·0	41·0	47·2	+ 2·0	41	3	0	33	*	*	*	*	3	0·07	- 0·45	*5·8*	—	*46*	—	*Clifton.*
a Shaftesbury	55	30th	34	2nd	51·3	37·4	44·0	+ 0·6	33	13	*	*	44·7	*	45·0	*	4	0·14	- 0·37	*	*	*	*	Shaftesbury.
a Arlington	54	3, 5	34	1st	51·3	38·0	44·3	+ 0·6	33	11	*	*	*	*	*	*	5	0·76	+ 0·03	*	*	*	*	Arlington.
a Newquay	*55*	*5th*	*38*	*31, 1, 2*	*51·6*	*40·7*	*45·9*	*- 0·1*	*33*	*4*	*	*	46·3	*	*	*	*4*	*0·77*	*+ 0·30*	5·2	+ 0·1	40	0	Newquay.
a Cullompton	57	5th	33	31st	54·3	39·1	46·3	+ 1·4	42	8	3	28	46·1	*	*	*	5	0·50	- 0·02	5·7	+ 1·0	44	+ 8	Cullompton.
a Portland	54	5th	42	31, 4, 5	50·7	43·1	46·7	+ 1·2	33	0	*	*	*	*	*	*	5	0·23	—	*5·6*	—	*44*	—	*Weymouth.*
p Plymouth	58	5th	35	31st	53·3	41·2	47·0	+ 1·0	38	2	3	25	47·1	+1·1	*	*	4	0·64	+ 0·10	5·8	+ 0·7	45	+ 6	Plymouth.
p Falmouth	55	5th	40	31, 1	51·3	43·1	47·0	+ 1·1	35	0	*	*	*	*	*	*	4	1·15	+ 0·51	5·4	+ 0·1	42	+ 1	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	54	3rd	36	2nd	50·1	39·4	44·5	+ 0·9	28	7	*	*	*	*	*	*	3	0·11	- 0·34	*	*	*	*	* *
a Blacksod Point ..	53	3, 4	37	1st	50·0	38·1	43·8	- 1·2	29	11	*	*	*	*	*	*	5	0·56	- 0·17	*	*	*	*	* *
p Markree Castle ..	58	4th	32	30th	53·7	35·7	44·3	+ 0·6	43	18	5	28	45·1	*	44·2	*	4	0·51	- 0·13	6·9	+ 2·7	53	+21	Markree Castle.
a Birr Castle	56	4th	32	4, 5	52·7	34·3	43·1	- 0·6	40	22	*	*	*	*	*	*	5	0·41	- 0·09	*6·9*	+ *2·4*	*53*	*+19*	*Birr Castle.*
b, East .. *p* Armagh	56	30th	33	1st	53·1	37·1	44·7	+ 1·1	39	14	4	25	43·6	−0·4	43·6	−0·6	3	0·27	- 0·23	6·2	+ 2·0	48	+16	Armagh.
a Donaghadee	54	30th	32	2nd	49·7	38·9	44·0	+ 0·1	27	9	*	*	*	*	*	*	3	0·11	- 0·35	*	*	*	*	* *
10. IRELAND, S.											3	26	45·6	+1·1	45·1	−0·1	—	—	—	*	*	*	*	Trinity Coll.
p Dublin, City	55	39th	38	1st	52·6	41·4	46·7	+ 0·9	35	2	3	20	*	*	*	*	—	—	—	6·2	+ 1·4	48	+11	Phœnix Park.
a, East .. *a* Kilkenny	56	30th	31	30th	52·6	37·7	44·8	+ 0·1	38	12	0	34	*	*	*	*	2	0·13	- 0·30	*	*	*	*	Dublin City.
a Waterford	55	30, 4, 5	34	1st	53·0	41·9	47·2	+ 2·4	37	0	*	*	*	*	*	*	3	0·56	+ 0·06	*	*	*	*	* *
																	4	0·49	- 0·14	*	*	*	*	* *
a Birr Castle	56	4th	32	4, 5	52·7	34·3	43·1	- 0·6	40	22	*	*	*	*	*	*	5	0·41	- 0·09	6·9	+ 2·4	53	+19	Birr Castle.
a Foynes	54	30, 5	36	31, 1, 3	51·5	36·8	43·8	- 1·9	34	15	*	*	*	*	*	*	5	0·52	- 0·06	*	*	*	*	* *
b, West .. *a* Cahir	56	30th	35	1st	52·4	38·9	45·3	+ 0·9	36	9	*	*	*	*	*	*	5	0·77	—	*	*	*	*	* *
a Killarney	57	30, 5	34	3, 4	54·2	36·6	45·0	- 0·6	44	15	*	*	*	*	*	*	4	0·62	- 0·27	*	*	*	*	* *
a Valencia	56	5th	39	1, 3	52·1	40·6	46·1	- 0·3	35	4	*	*	*	*	*	*	4	1·05	+ 0·10	6·6	+ 1·8	51	+14	Valencia.
a Roche's Point ..	56	5th	38	1st	51·7	40·1	45·6	- 0·4	33	5	*	*	*	*	*	*	6	0·65	0·00	6·1	—	47	-	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	30, 3	40	1, 2	51·4	42·4	46·7	- 0·5	33	0	*	*	*	*	*	*	4	0·43	- 0·04	4·3	- 1·0	33	- 8	Scilly.
a Jersey, St. Aubins ..	57	31st	40	2nd	52·7	43·9	48·1	+ 1·3	43	0	*	*	*	*	*	*	4	0·28	- 0·22	5·0	- 0·7	39	- 5	St. Heliers.
a Guernsey (Villa Carey)	57	3rd	40	2nd	52·4	44·0	48·0	+ 1·0	42	0	0	35	48·0	+0·8	48·1	+1·3	3	0·43	- 0·13	4·5	- 1·2	35	-10	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·0 hrs. 39 %; Ramsgate, 4·3 hrs. 33 %; Rhyl, 4·8 hrs. 37 %; Salcombe, 5·0 hrs. 39 %; Tenby, 5·4 hrs. (0·0) 42 % (0 %); Torquay, 5·4 hrs. (+0·1) 42 % (+1 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, April 5th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	43	42	42·7	−0·7	SCOTLAND, W. ..	Lamlash	50	43	44·9	+0·6
	Kirkwall	45	43	44·5	+1·5		Ballantrae	44	42	43·5	−0·9
	Wick	44	43	43·5	+0·1	ENGLAND, N.W. ..	Port Erin	47	44	45·5	+0·8
	Cromarty	44	41	42·4	+0·2		Newquay	48	48	48·0	0·0
SCOTLAND, E. ..	Pennan Bay	45	43	44·1	+1·4	ENGLAND, S.W. ..	Scilly	50	49	49·2	—
	Aberdeen, Cove Bay	43	42	42·4	−0·3		Plymouth‡	50	48	48·4	+1·0
ENGLAND, N.E. ..	Burnmouth, Berwick	41	40	40·4	−0·7		Salcombe	50	46	47·9	+1·5
	Scarborough	44	41	42·9	+0·6		Sheephaven	47	44	45·7	−0·6
ENGLAND, E. ..	Shipwash Lightship	49	46	47·1	+4·9	IRELAND, N.W. ..	Teelin	47	45	46·2	−0·4
	Margate‡	49	47	47·3	+3·1	IRELAND, S.W. ..	Cleggan	47	44	46·4	+0·2
ENGLAND, S.E. ..	Eastbourne‡	47	45	46·0	+1·8		Seafield	54	48	51·0	+2·9
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FOURTEENTH WEEK—March 30th to April 5th, 1913.

DISTRICTS. (See Frontispiece map)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	59	25	50·3	35·2	42·4	+ 1·4	31	+ 11	19	− 6	3	− 1	0·13	−0·65	5·1	+0·8	39	+ 6
Eastern.																		
1. SCOTLAND, EAST ...	57	23	50·9	33·6	41·9	+ 0·5	25	− 1	33	+ 7	2	− 2	0·16	−0·28	6·2	+1·6	47	+12
2. ENGLAND, N.E.	57	32	50·6	37·9	44·0	+ 1·5	31	+ 6	11	− 8	2	− 2	0·21	−0·17	4·3	−0·7	33	− 6
3. ENGLAND, EAST ...	57	31	51·1	40·1	45·3	+ 1·5	31	− 3	5	−15	2	− 1	0·32	−0·02	3·4	−1·7	26	−13
4. MIDLAND COUNTIES ...	60	29	52·2	37·7	44·6	+ 0·8	36	0	12	− 9	3	0	0·24	−0·17	3·5	−1·2	27	− 9
5. ENGLAND, S.E.	57	30	52·0	40·9	46·1	+ 0·9	33	− 4	3	− 9	4	+ 1	0·47	+0·15	3·9	−1·1	30	− 9
Western.																		
6. SCOTLAND, WEST ...	60	27	52·3	37·1	44·3	+ 1·5	37	+ 11	14	− 5	3	0	0·20	−0·47	4·9	−0·1	38	− 1
7. ENGLAND, N.W.	58	30	52·1	38·9	45·1	+ 1·4	35	+ 7	9	− 7	2	− 2	0·20	−0·32	4·9	+0·8	38	+ 6
8. ENGLAND, S.W.	58	31	52·2	40·0	45·8	+ 0·5	35	0	6	− 4	4	+ 1	0·49	−0·05	5·2	+0·1	41	+ 1
9. IRELAND, NORTH ...	58	32	51·6	37·3	44·1	+ 0·1	34	+ 4	13	− 2	4	0	0·33	−0·25	6·6	+2·0	50	+16
10. IRELAND, SOUTH ...	57	31	52·5	38·7	45·3	− 0·3	37	− 1	9	− 1	4	+ 1	0·58	−0·04	6·5	+1·3	47	+ 8
11. ENGLISH CHANNEL ...	57	40	52·2	43·4	47·6	0·0	39	− 3	0	− 2	4	+ 1	0·38	−0·04	4·6	−1·4	36	−11

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 5 Weeks, March 2nd to April 5th, 1913.

0. SCOTLAND, NORTH ...	59	21	*	*	*	*	61	− 6	137	− 9	26	+ 2	5·95	+ 1·14	3·5	+0·1	29	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	57	16	*	*	*	*	64	− 29	165	+ 7	24	+ 4	3·75	+ 1·23	4·5	+0·7	37	+ 5
2. ENGLAND, N.E.	57	20	*	*	*	*	104	+ 1	108	− 17	22	+ 4	2·65	+ 0·68	4·0	−0·3	33	− 2
3 ENGLAND, EAST ...	58	24	*	*	*	*	158	+ 25	57	− 76	21	+ 5	2·22	+ 0·48	3·6	−0·7	30	− 6
4. MIDLAND COUNTIES ...	60	23	*	*	*	*	146	+ 8	90	− 45	22	+ 6	3·67	+ 1·71	3·4	−0·5	29	− 4
5. ENGLAND, S.E.	57	24	*	*	*	*	156	+ 16	40	− 56	24	+ 9	3·03	+ 1·10	3·7	−0·6	31	− 4
Western.																		
6. SCOTLAND, WEST ...	60	21	*	*	*	*	103	+ 8	98	− 18	24	+ 4	4·53	+ 0·69	3·9	0·0	32	0
7. ENGLAND, N.W.	58	21	*	*	*	*	111	+ 7	86	− 17	25	+ 6	4·34	+ 1·66	4·1	+0·4	34	+ 3
8. ENGLAND, S.W.	58	20	*	*	*	*	140	+ 2	56	− 24	25	+ 7	4·89	+ 1·94	3·9	−0·4	32	− 4
9. IRELAND, NORTH ...	58	25	*	*	*	*	117	0	100	+ 3	26	+ 4	3·96	+ 0·94	4·2	+0·5	35	+ 4
10. IRELAND, SOUTH ...	58	23	*	*	*	*	146	− 5	76	+ 2	27	+ 8	4·49	+ 1·21	4·3	+0·1	36	+ 1
11. ENGLISH CHANNEL ...	57	34	*	*	*	*	190	+ 25	2	− 26	22	+ 3	3·23	+ 0·82	4·3	−0·9	36	− 7

THE YEAR.—Aggregates, &c., for the Period of 14 Weeks, December 31st, 1912, to April 5th, 1913.

0. SCOTLAND, NORTH ...	59	21	*	*	*	*	129	+ 2	363	−113	69	− 1	15·23	−0·54	1·8	−0·3	20	− 3
Eastern.																		
1. SCOTLAND, EAST ...	57	11	*	*	*	*	118	− 43	507	− 28	61	+ 6	8·61	+1·10	2·3	−0·3	24	− 3
2. ENGLAND, N.E.	57	18	*	*	*	*	185	+ 2	366	− 60	57	+ 6	6·53	+1·17	2·3	−0·5	24	− 5
3. ENGLAND, EAST ...	58	20	*	*	*	*	265	+ 42	266	−206	54	+ 4	5·77	+0·66	2·5	−0·5	25	− 5
4. MIDLAND COUNTIES ...	60	13	*	*	*	*	257	+ 15	352	−119	56	+ 7	8·46	+2·32	2·1	−0·5	21	− 5
5. ENGLAND, S.E.	57	22	*	*	*	*	295	+ 37	202	−153	54	+ 7	7·99	+1·61	2·7	−0·2	26	− 2
Western.																		
6. SCOTLAND, WEST ...	60	17	*	*	*	*	203	+ 19	291	− 87	62	+ 2	13·47	+0·78	2·0	−0·5	21	− 6
7. ENGLAND, N.W.	58	10	*	*	*	*	218	+ 20	279	− 75	60	+ 5	10·22	+1·87	2·4	−0·1	24	− 1
8. ENGLAND, S.W.	58	19	*	*	*	*	303	+ 14	208	− 71	66	+12	13·40	+3·45	2·6	−0·3	26	− 3
9. IRELAND, NORTH ...	58	21	*	*	*	*	268	+ 26	261	− 53	68	+ 4	11·24	+1·69	2·4	−0·1	24	− 1
10. IRELAND, SOUTH ...	58	22	*	*	*	*	345	+ 8	221	− 18	71	+14	14·28	+3·45	2·5	−0·4	25	− 4
11. ENGLISH CHANNEL ...	60	32	*	*	*	*	455	+ 71	38	− 69	62	+ 2	9·95	+1·63	3·1	−0·5	30	− 5

M.O., April 9, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 57

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* } No. 15. FIFTEENTH WEEK, SUNDAY, APRIL 6TH, TO SATURDAY, APRIL 12TH, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. Early in the week the conditions were dry generally, and in some parts of Ireland and the south-west of England no material change occurred later. Over the Kingdom as a whole, however, rain or snow was experienced. In the northern and eastern parts of Britain the snowfall on Friday was heavy, measuring, when melted, about 0·5 in. of water.

Temperature was slightly above the normal in Ireland, below it elsewhere, the deficit being about 3° in England E., S.E. and the Midland Counties, and nearly as much in England N.E. The highest of the maxima occurred generally during the earlier half of the week, and ranged from 63° in Scotland W. to 52° in England E. and to 51° in England N.E. The lowest of the minima were recorded about the middle of the week over a large area in the west, but mainly on the 11th or 12th in the north and east. In Scotland N. (at Baltasound and Lerwick) the thermometer fell to 24°; elsewhere the readings varied from 27° in Scotland E. and W. and also in England S.W. to 32° in England S.E. and to 37° in the English Channel. The lowest grass readings were 19° at Llangammarch Wells, 21° at Worksop, and 22° at Birmingham and Blackpool. Over the Kingdom as a whole the temperature of the soil was a little below the average at a depth of 1 foot, but above it at a depth of 4 feet.

Mean Temperature of the Sea was rather above the average in most places, and on the north-west and south-west coasts of Ireland it was higher than during the corresponding week of last year. Generally, however, the water was colder than it was a twelvemonth ago. The mean values ranged from 52° at Seafield, and 49° at Scilly, to 41° at Burnmouth.

Rainfall exceeded the average in the eastern half of England, but was less elsewhere. In Ireland S. and at most places in England S.W. the fall was very slight. At Waterford, Cahir, Scilly and Newquay no rain was experienced.

Bright Sunshine was a little above the normal in Ireland, where the daily mean was 5·5 hours or more, but much below it elsewhere. In Scotland N. and England N.E. the daily mean was only 1·7 hour, and the percentage of the possible duration 13. In Ireland N. the percentage was 40, and in Ireland S. it was as high as 43.

Barometer and Wind. At the commencement of the week an anticyclone lay to the southward of Iceland, while a well-marked depression covered a large portion of western and central France, the wind over these Islands being moderate to strong or high from the Northward and North-Eastward. The anticyclone subsequently moved southward, and the depression travelled away east-north-eastward, the winds in the meantime falling light in this country. Late in the week some secondary disturbances passed from the northward over the United Kingdom, and caused a further increase in the force of the wind, and a temporary return to wintry weather conditions over these Islands generally.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 59.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland N.	10. Ireland, S.	11. English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Very deficient	Very deficient	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient
	Rainfall ...	Moderate	Moderate	Heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Very light	Very light
	Sunshine ...	Scanty	Scanty	Scanty	Very scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 6 weeks from March 2nd, 1913.	Warmth ...	1 * 2	0 * 2	2 * 2	3 * 1	3 * 1	3 * 1	2 * 1	2 * 2	1 * 0	1 * 1	1 * 1	2 * 1
	Rainfall ...	3 * 2	2 * 1	3 * 2	2 * 0	3 * 0	2 * 0	3 * 2	3 * 1	2 * 1	3 * 1	2 * 1	2 * 1
	Sunshine ...	2 * 1	2 * 1	1 * 2	0 * 3	1 * 3	0 * 2	1 * 2	1 * 1	0 * 2	2 * 1	1 * 1	0 * 4

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(29558—24.) Wt. 196—786. 450. 4/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*49*	*7th*	*24*	*10, 11*	*41·6*	*31·7*	*36·4*	—	*0*	*39*	•	•	41·0	•	•	•	*4*	*0·06*	—	*3·0*	—	*22*	—	*Baltasound.*
a Lerwick	48	7, 9	24	11th	41·3	34·0	37·5	- 3·3	0	32	•	•	•	•	•	•	3	0·08	—	1·3	- 3·4	9	- 25	Deerness.
a Stornoway	51	7th	30	11th	47·0	36·7	41·6	- 0·9	14	20	•	•	•	•	•	•	3	0·53	- 0·17	2·3	- 2·7	17	- 20	Stornoway.
a Castlebay, Barra Isd. .	*52*	*7th*	*32*	*11th*	*48·4*	*39·9*	*44·0*	- *1·2*	*23*	*6*	•	•	•	•	•	•	*4*	*0·55*	—	*3·9*	—	*29*	—	*Castlebay.*
a Wick	48	8, 9	29	11, 12	43·0	35·4	39·0	- 3·3	3	22	•	•	•	•	•	•	4	0·14	- 0·31	•	•	•	•	
p Strathpeffer	55	8th	29	11th	49·4	34·7	41·7	- 0·9	21	28	•	•	•	•	•	•	3	0·28	- 0·15	1·6	- 2·9	12	- 21	Strathpeffer.
p Glencarron	54	6th	27	11th	45·5	33·2	39·1	- 2·4	10	32	•	•	•	•	•	•	3	1·10	- 0·20	•	•	•	•	
p Fort Augustus.. ..	53	8th	30	11th	46·3	36·3	41·1	- 1·6	12	22	•	•	•	•	•	•	4	0·53	- 0·04	1·7	- 1·9	12	- 14	Fort Augustus.
p Fort William	60	8th	30	11th	48·6	34·9	41·4	- 2·5	18	27	•	•	•	•	•	•	3	0·52	- 0·49	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. .. S	50	9th	29	11th	44·7	36·4	40·4	- 2·8	8	30	3	26	42·6	+0·5	41·4	+0·2	—	—	—	1·9	—	14	—	Crathes S.
a Nairn	51	7, 9	28	11th	45·0	33·6	39·0	- 3·7	8	29	•	•	•	•	•	•	5	0·34	- 0·06	*0·3*	—	*2*	—	*Gordon Castle.*
a Aberdeen	51	9th	29	12th	44·9	37·1	40·8	- 2·2	8	18	•	•	•	•	41·8	+0·1	5	0·53	+ 0·21	1·3	—	10	—	Nairn.
a Balmoral	52	8th	27	6th	48·1	31·4	39·4	0·9	17	39	5	24	•	•	•	•	3	0·40	- 0·06	1·1	- 3·8	8	- 28	Aberdeen.
p Crieff	60	8th	30	11th	49·4	34·9	41·8	- 2·0	21	28	•	•	•	•	•	•	4	0·33	- 0·22	•	•	•	•	Balmoral.
a Leith	56	8th	32	12th	46·6	37·9	42·0	- 2·3	13	11	•	•	•	•	•	•	4	0·46	- 0·08	2·7	—	20	—	
p West Linton .. .. S	56	8th	29	11th	44·7	33·1	38·6	- 2·2	8	31	5	29	•	•	•	•	3	0·46	+ 0·17	•	•	•	•	Balruddery.
p Marchmont .. .. S	52	8th	29	11th	45·1	35·4	40·0	- 2·0	9	24	1	25	42·0	-0·4	•	•	4	0·53	—	1·4	—	10	—	*West Linton.*
																	2	0·24	- 0·25	2·3	- 2·2	17	- 16	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	51	8th	32	12th	45·1	37·7	41·2	- 1·5	9	16	2	25	41·9	-0·3	42·6	+0·5	3	0·56	+ 0·11	1·6	—	12	—	Cockle Park.
a Shields	51	9th	31	11, 12	46·0	36·7	41·1	- 2·1	11	20	•	•	•	•	•	•	5	0·59	+ 0·27	•	•	•	•	
p Durham	50	9th	31	11th	43·9	35·9	39·7	- 3·2	5	21	2	29	•	•	•	•	4	0·57	+ 0·22	0·9	- 3·4	7	- 25	Durham.
a, North .. *p* Rounton	49	9th	29	12th	43·7	35·6	39·5	- 3·2	5	23	2	26	42·0	•	•	•	5	0·42	+ 0·02	•	•	•	•	Rounton
a West Witton	*50*	*8, 9*	*30*	*12th*	*44·7*	*34·9*	*39·6*	—	*8*	*25*	3	30	41·5	•	40·3	•	*3*	*0·52*	—	•	•	•	•	*West Witton.*
p Scarborough	48	9th	33	12th	45·0	37·8	41·2	- 2·6	8	15	•	•	•	•	43·0†	•	5	0·64	+ 0·24	1·6	—	12	—	Scarborough.
p York	50	8th	31	12th	46·9	36·7	41·6	- 3·1	14	21	•	•	43·7	-0·3	43·4	+0·4	3	0·51	+ 0·12	1·5	- 2·8	11	- 21	York.
											3	28	42·9	-1·0	43·0	+0·3	—	—	—	*0·9*	—	*7*	—	*Hull.*
a Spurn Head	48	7, 9	33	12th	44·9	38·1	41·3	- 2·7	8	14	•	•	•	•	•	•	3	0·46	+ 0·20	*2·6*	—	*19*	—	*Spurn Head.*
b, South .. *a* Lincoln	50	7th	32	8, 12	46·0	36·7	41·1	- 4·0	11	20	•	•	41·9	-2·1	42·8	-0·3	3	0·57	+ 0·24	•	•	•	•	Lincoln.
a Fulbeck	49	10th	29	8th	45·4	35·6	40·3	- 4·5	10	23	1	24	44·3	-1·8	44·1	+0·1	7	0·53	+ 0·17	2·1	—	16	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·5	—	19	—	Skegness.
3. ENGLAND, E.											1	28	44·5	-1·2	45·1	+0·7	—	—	—	*2·5*	—	*19*	—	*Lowestoft.*
p Cromer	48	6th	31	12th	45·1	37·7	41·2	- 2·7	9	16	•	•	•	•	•	•	5	0·53	—	2·5	—	19	•	Cromer.
p Little Massingham ..	48	6, 7	33	11, 12	44·9	36·4	40·5	- 4·2	8	21	3	25	•	•	•	•	6	0·74	+ 0·34	2·2	- 2·7	16	- 20	Lit. Massingham
a, North .. *a* Yarmouth	47	7, 8, 9	34	12th	45·4	39·3	42·2	- 1·4	13	8	•	•	44·7	-1·8	46·1	+0·4	5	0·74	+ 0·40	2·8	—	21	—	Yarmouth.
a Norwich	48	8th	31	8th	45·3	36·6	40·7	- 3·6	9	19	3	23	43·5	•	•	•	5	0·74	—	*2·3*	—	*17*	—	*Norwich.*
p Geldeston	51	8th	32	12th	46·9	36·6	41·5	- 2·9	14	21	•	•	•	•	•	•	5	0·59	+ 0·23	2·2	- 3·0	16	- 22	Geldeston.
p Cambridge	52	10th	33	8, 11, 12	47·3	36·3	41·5	- 4·0	15	22	3	29	45·0	-1·3	45·6	+0·3	3	0·42	+ 0·09	2·4	- 2·7	18	- 20	Cambridge.
a Felixstowe	*57*	*6, 7*	*34*	*12th*	*49·9*	*37·7*	*43·5*	- *1·1*	*29*	*12*	•	•	•	•	•	•	*4*	*0·87*	—	*2·7*	—	*20*	—	*Felixstowe.*
a Clacton-on-Sea ..	51	6th	34	12th	47·1	38·1	42·4	- 2·1	19	11	1	30	45·2	-0·6	46·6	+0·7	3	0·68	—	2·3	—	17	—	Clacton.
b, South .. *a* Rothamsted ..	50	6th	32	12th	46·7	36·1	41·2	- 3·2	13	23	•	•	•	•	•	•	4	0·61	+ 0·23	2·4	- 2·4	18	- 18	Rothamsted.
a Shoeburyness	*51*	*6, 8*	*34*	*12th*	*47·4*	*37·9*	*42·4*	- *3·9*	*20*	*11*	5	26	45·1	-1·3	•	•	*2*	*0·73*	+ *0·48*	*2·3*	—	*17*	—	*Southend.*
p Tottenham	52	6th	34	8, 12	47·3	38·1	42·5	- 3·2	20	11	2	27	•	•	45·8	+0·9	2	0·68	—	2·9	—	22	—	Tottenham.
4. MIDLAND COUNTIES.											2	28	42·1	-0·8	41·9	+0·7	—	—	—	*1·3*	—	*10*	—	*Hudderafield.*
a Harrogate	48	8th	28	12th	43·4	35·3	39·2	- 4·0	4	23	3	28	41·6	-0·9	42·1	-0·2	3	0·53	+ 0·09	1·5	—	11	—	Harrogate.
a Bawtry	53	7th	29	12th	47·0	35·3	40·9	- 4·1	14	25	3	21	43·5	•	43·9	•	5	0·60	+ 0·27	2·1	- 2·1	16	- 16	Worksop.
p Buxton	*47*	*8th*	*31*	*11, 12*	*44·1*	*34·7*	*39·2*	- *2·4*	*6*	*26*	3	25	41·7	-1·0	42·4	+0·8	*4*	*0·95*	+ *0·25*	*2·2*	—	*16*	—	*Buxton.*
a, East .. *a* Nottingham	52	10th	32	12th	46·9	36·9	41·7	- 3·0	14	20	2	29	42·1	-1·9	42·3	0·0	2	0·46	+ 0·11	2·8	—	21	—	Nottingham.
p Birmingham, Edgbsn.	48	8, 10	32	8, 11	46·0	36·4	41·0	- 3·7	11	21	3	22	41·9	-1·1	44·0	+0·3	3	0·59	+ 0·17	1·0	—	8	—	Birmingham.
a Raunds	49	9, 10	31	8th	46·1	36·7	41·2	- 3·4	11	20	1	26	43·5	•	44·9	•	3	0·59	—	•	•	•	•	Raunds.
p Oxford	52	6th	33	8th	48·6	38·1	43·1	- 2·6	24	11	1	27	•	•	•	•	2	0·39†	+ 0·06	2·6	- 2·2	19	- 17	Oxford.
											2	28	41·6	-1·2	42·4	+0·5	—	—	—	1·9	—	14	—	Sheffield.
a Cheadle	52	10th	30	7, 12	46·4	34·4	40·1	- 3·6	12	28	4	24	•	•	•	•	3	0·89	+ 0·42	•	•	•	•	Cheadle.
p Shrewsbury	52	6, 7, 9	29	8th	49·7	36·4	42·7	- 3·1	28	16	2	26	•	•	•	•	4	0·60	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	53	6th	31	8th	48·9	37·6	43·0	- 2·7	25	12	1	25	•	•	•	•	4	0·27	- 0·12	•	•	•	•	Hereford.
a Cirencester	52	10th	32	8th	48·0	36·4	41·9	- 2·4	17	22	1	30	44·2	•	44·5	•	2	0·57	+ 0·17	3·1	- 1·9	23	- 14	Cirencester.
a Bath	55	6, 10	33	8th	50·9	38·7	44·5	- 1·5	31	9	•	•	46·5	-0·2	47·3	+1·3	3	0·16	- 0·30	2·5	—	19	—	Bath.
5. ENGLAND, S.E.											0	32	45·6	+0·6	47·2	+1·7	—	—	—	•	•	•	•	Canterbury.
p Kew	52	6th	34	8th	48·1	38·1	42·9	- 3·2	23	11	2	26	45·2	0·0	45·9	+1·1	3	0·47	+ 0·13	2·9	- 2·5	22	- 19	Kew.
a Marlborough											•	•	•	•	•	•	—	—	—	•	•	•	•	Marlborough.
a Margate	49	8th	36	12th	46·3	39·7	42·8	- 2·5	15	6	0	35	46·3	+1·3	47·0	+2·7	5	0·56	+ 0·25	1·8	- 3·2	13	- 24	Margate.
a Wisley, Surrey ..	54	6th	34	8, 12	48·0	37·7	42·6	- 4·0	22	12	3	26	45·3	0·0	45·6	+0·6	2	0·40	—	2·9	—	22	—	Wisley
											1	30	46·3	0·6	47·1	+1·7	—	—	—	3·1	—	23	—	Worthing.
p Salisbury	55	6th	32	8th	49·6	37·9	43·5	—	28	11	1	28	46·9	•	•	•	3	0·42	—	•	•	•	•	Salisbury.
a Tunbridge Wells ..	50	6th	32	12th	46·7	35·9	41·0	- 4·1	13	23	3	28	44·1	-1·1	•	•	3	0·51	+ 0·11	2·4	- 2·7	18	- 21	Tunbridge Wells.
a Dungeness	50	10th	37	10, 12	46·9	39·4	43·0	- 2·2	18	7	•	•	•	•	•	•	4	0·42	+ 0·09	2·2	—	17	—	Littlestone.
p Hastings..	49	8, 10	35	12th	47·3	38·4	42·6	- 3·4	19	10	0	33	45·9	•	46·8	•	3	0·60	+ 0·21	*2·8*	- *2·8*	*21*	- *21*	*Hastings.*
p Southampton	55	6th	35	8th	50·7	39·6	44·9	- 2·8	30	7	1	30	•	•	•	•	2	0·33	- 0·10	3·8	- 1·5	29	- 12	Southampton
a Ventnor	55	6, 10	36	8th	50·9	39·4	44·9	- 2·1	31	7	•	•	•	•	•	•	2	0·28	- 0·11	3·4	- 2·4	26	- 18	Ventnor.
											1	29	47·3	+0·1	48·0	+1·0	—	—	—	*2·8*	—	*21*	—	*Portsmouth.*
											•	•	46·9	•	47·6	•	—	—	—	3·2	- 2·3	24	- 18	Eastbourne.
											•	•	46·1	•	46·6	•	—	—	—	*4·1*	—	*31*	—	*Bournemouth.*
LONDON.											1	29	•	•	46·6	•	—	—	—	*3·4*	- *1·9*	*26*	- *16*	*Brighton.*
a Westminster	*54*	*6th*	*35*	*12th*	*48·4*	*39·4*	*43·7*	- *2·5*	*23*	*7*	0	31	•	•	•	•	*2*	*0·51*	+ *0·17*	*2·4*	- *1·1*	*18*	- *8*	*Westminster.*
a Greenwich	*55*	*6th*	*34*	*12th*	*48·7*	*38·0*	*43·1*	- *3·3*	*25*	*11*	3	28	•	•	•	•	*2*	*0·53*	+ *0·19*	*2·8*	- *1·8*	*21*	- *13*	*Greenwich.*
a Hampstead	*51*	*6th*	*32*	*8, 12*	*45·9*	*35·9*	*40·7*	—	*11*	*23*	3	27	•	•	•	•	*3*	*0·56*	—	*3·3*	—	*25*	—	*Hampstead.*
a Camden Square ..	*55*	*6th*	*33*	*8th*	*49·7*	*37·7*	*43·4*	—	*28*	*12*	2	29	•	•	•	•	*3*	*0·58*	—	*3·1*	—	*23*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. .. S	60	6th	33	11, 12	51·3	37·1	43·9	- 0·2	34	14	•	•	•	•	•	•	3	0·72	+ 0·09	•	•	•	•	
p Glasgow	61	8th	32	11th	49·7	36·6	42·8	- 0·9	28	15	3	24	•	•	•	•	2	0·45	- 0·02	2·1	- 1·9	15	- 14	Glasgow.
p Rothesay	63	8th	30	7th	53·1	35·1	43·7	- 0·7	41	19	•	•	•	•	43·9	+0·6	3	0·61	- 0·06	•	•	•	•	
a Kilmarnock	60	8th	27	7th	51·0	33·4	41·8	- 2·1	25	34	•	•	•	•	•	•	3	0·38	—	*2·7*	—	*20*	—	*Kilmarnock.*
a Colmonell	59	8th	29	8th	51·1	34·9	42·6	- 1·7	34	20	4	25	•	•	•	•	3	0·57	- 0·03	•	•	•	•	
p Dumfries .. .. S	55	8th	31	11th	48·7	37·3	42·7	- 1·7	25	13	2	30	43·8	•	43·6	•	3	0·43	- 0·10	*2·7*	—	*20*	—	*Dumfries.*
p Cally, Gatehouse .. S	57	8th	30	12th	51·3	34·9	42·7	- 1·1	35	20	•	•	•	•	•	•	3	0·59	- 0·14	•	•	•	•	
b I. OF MAN.																								
p Douglas	55	8th	34	12th	49·0	39·3	43·9	- 0·5	25	8	0	31	•	•	•	•	4	0·56	- 0·02	5·3	- 0·4	39	- 3	Douglas.
											2	28	41·7	-0·6	42·2	+0·8	—	—	—	*2·8*	—	*21*	—	*Burnley.*
											1	28	•	•	•	•	—	—	—	2·2	—	16	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	60	8th	32	11th	50·4	36·3	43·0	- 0·4	31	16	2	27	44·2	•	44·0	•	3	0·28	- 0·22	3·0	—	22	—	Aspatria.
p Newton Rigg	57	8th	30	11th	47·6	35·6	41·3	- 1·4	16	24	2	26	44·0	+0·6	42·3	+0·3	4	0·30	- 0·21	3·1	- 1·7	23	- 12	Newton Rigg.
p Stonyhurst	55	8th	34	11, 12	47·6	37·4	42·3	- 1·4	21	13	3	27	•	•	•	•	3	0·53	- 0·11	2·4	- 2·3	18	- 17	Stonyhurst.
p Blackpool	53	6th	30	12th	48·7	37·1	42·6	- 1·9	25	14	5	22	44·1	•	44·3	•	3	0·48	+ 0·04	3·7	- 1·2	28	- 9	Blackpool.
p Manchester (Whit. Pk.)											•	•	•	•	•	•	—	—	—	•	•	•	•	*Whit. Park.*
a Liverpool (Bidston) ..	51	6th	34	12th	47·7	38·4	42·8	- 2·3	21	10	•	•	•	•	•	•	3	0·57	+ 0·17	*2·1*	—	*16*	—	*Liverpool.*
a Hawarden Bridge ..	52	10th	36	12th	49·9	39·7	44·6	- 1·6	28	6	3	26	44·3	-0·9	44·2	-0·1	3	0·45	+ 0·15	*3·6*	- *1·5*	*27*	- *11*	*Southport.*
											0	32	42·8	-0·3	44·3	+0·7	—	—	—	*1·8*	—	*13*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	51	8th	37	12th	48·3	40·9	44·4	- 1·4	21	3	•	•	•	•	•	•	3	0·47	- 0·03	3·0	- 1·9	22	- 14	Llandudno.
a Holyhead	52	10th	39	8, 12	48·4	40 7	44·4	- 1·0	22	4	•	•	•	•	•	•	2	0·33	- 0·16	*4·5*	—	*34*	—	*Holyhead.*
p Bettws-y-Coed ..	53	8, 11	30	8th	50 7	36·3	43·2	- 2·3	32	16	0	32	43·7	+0·3	44·6	+0·6	2	0·44	—	2·0	—	15	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	2·8	—	21	—	Aberdovey.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				2·7	—	20	—	Aberystwyth.
a Llangammarch Wells	51	6th	27	8th	48·7	34·6	41·3	- 2·4	19	28	?3	19	42·6	-1·4	44·3	+0·2	3	0·44	—	1·5	- 4·1	11	-31	Llangammarch
a Pembroke	54	6th	35	8th	50·1	40·0	44·8	- 0·7	28	6	•	•	•	•	•	•	2	0·19	- 0·28	3·7	—	28	—	Pembroke.[Wells
p Cardiff	53	6th	34	8th	49·6	39·0	44·1	- 2·9	27	8	1	28	44·9	+2·7	45·4	+1·2	2	0·18	- 0·42	*2·4*	—	*18*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	54	6, 10	34	8th	50·3	39·7	44·8	- 1·9	29	6	0	32	•	•	•	•	1	0·13	- 0·39	*2·6*	—	*19*	—	*Clifton.*
a Shaftesbury	52	6th	30	8th	47·0	35·7	41·1	- 3·4	14	25	•	•	44·2	•	45·3	•	1	0·30	- 0·22	•	•	•	•	Shaftesbury.
a Arlington	53	6th	32	12th	47·0	36·4	41·5	- 3·1	14	22	•	•	•	•	•	•	2	0·31	- 0·39	•	•	•	•	Arlington.
a Newquay	*52*	*6th*	*35*	*8th*	*48·7*	*41·7*	*45·0*	*- 1·8*	*22*	*1*	•	•	46·9	•	•	•	*0*	*0·00*	*- 0·47*	4·0	- 1·5	30	-11	Newquay.
a Cullompton	55	6th	34	8th	50·4	40·7	45·3	- 0·7	29	4	1	28	47·2	•	•	•	3	0·15	- 0·37	2·5	- 2·4	19	-18	Cullompton.
a Portland	55	6th	36	12th	50·6	40·1	45·1	- 1·4	30	5	•	•	•	•	•	•	1	0·05	—	*3·2*	—	*24*	—	*Weymouth.*
p Plymouth	58	6th	37	8th	52·2	41·8	46·8	- 0·3	34	1	1	29	47·4	0·0	•	•	1	0·01	- 0·52	3·5	- 1·9	26	-14	Plymouth.
p Falmouth	55	6th	37	8th	50·3	43·0	46·5	- 0·3	32	0	•	•	•	•	•	•	1	0·02	- 0·61	4·1	- 1·5	31	-12	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	53	6th	40	7th	48·6	41·7	45·0	+ 0·6	22	1	•	•	•	•	•	•	4	0·56	+ 0·13	•	•	•	•	• •
a Blacksod Point ..	53	7th	38	8, 9	50·9	40·9	45·7	- 0·3	31	3	•	•	•	•	•	•	3	0·16	- 0·52	•	•	•	•	• •
p Markree Castle ..	59	6th	29	8th	53·1	37·9	45·1	+ 0·5	40	11	3	26	46·8	•	44·9	•	3	0·46	- 0·16	6·1	+ 1·5	45	+11	Markree Castle.
a Birr Castle ..	59	8th	30	8th	53·9	36·0	44·5	- 0·5	43	17	•	•	•	•	•	•	2	0·04	- 0·45	*5·9*	*+ 1·1*	*44*	*+ 8*	*Birr Castle.*
b, East .. *p* Armagh	59	8th	32	7th	53·4	37·6	45·1	+ 0·4	40	12	3	23	45·4	+0·4	44·4	-0·4	3	0·39	- 0·09	4·8	+ 0·3	35	+ 2	Armagh.
a Donaghadee	52	8, 10	37	12th	49·4	40·4	44·7	- 0·1	26	4	•	•	•	•	•	•	3	0·33	- 0·13	•	•	•	•	• •
											3	25	46·4	+0·7	45·9	+0·2	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											2	23	•	•	•	•	—	—	—	3·9	- 1·3	29	- 9	Phœnix Park.
a, East .. *p* Dublin, City	58	8th	40	8th	52·1	42·4	47·0	+ 0·3	35	0	0	36	•	•	•	•	3	0·27	- 0·15	•	•	•	•	Dublin City.
a Kilkenny	59	8th	35	8th	53·3	40·4	46·5	+ 0·9	38	4	•	•	•	•	•	•	3	0·07	- 0·43	•	•	•	•	• •
a Waterford	58	6, 8	35	8th	53·9	41·4	47·4	+ 1·6	39	1	•	•	•	•	•	•	0	0·00	- 0·61	•	•	•	•	• •
b, West .. *a* Birr Castle	59	8th	30	8th	53·9	36·0	44·5	- 0·5	43	17	•	•	•	•	•	•	2	0·04	- 0·45	5·9	+ 1·1	44	+ 8	Birr Castle.
a Foynes	59	8th	34	8th	54·5	39·8	46·8	+ 0·3	43	6	•	•	•	•	•	•	2	0·04	- 0·53	•	•	•	•	• •
a Cahir	58	8th	33	8th	54·4	41·4	47·6	+ 2·5	42	2	•	•	•	•	•	•	0	0·00	—	•	•	•	•	• •
a Killarney	60	6th	32	8th	55·2	39·9	47·2	+ 0·7	45	6	•	•	•	•	•	•	3	0·06	- 0·78	•	•	•	•	• •
a Valencia	57	6th	37	7th	53·3	41·9	47·3	0·0	38	0	•	•	•	•	•	•	3	0·08	- 0·85	6·7	+ 1·6	50	+12	Valencia.
a Roche's Point	58	6th	37	7th	53·4	41·9	47·4	+ 0·6	38	0	•	•	•	•	•	•	1	0·01	- 0·63	6·7	—	50	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	52	10, 11, 12	39	8, 9	50·6	42·4	46·3	- 1·7	30	0	•	•	•	•	•	•	0	0·00	- 0·46	4·5	- 1·2	34	- 9	Scilly.
a Jersey, St. Aubins ..	54	11th	37	10th	50·7	42·9	46·6	- 1·4	32	0	•	•	•	•	•	•	3	0·07	- 0·41	2·7	- 3·4	20	-25	St. Heliers.
a Guernsey (Villa Carey)	54	11th	40	10th	50·6	43·6	46·9	- 1·0	34	0	1	30	47·5	-0·6	48·0	+0·5	1	0·01	- 0·55	2·8	- 3·3	21	-25	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·7 hrs. 20 %; Ramsgate, 2·6 hrs. 19 %; Rhyl, 3·3 hrs. 25 %; Salcombe, 3·4 hrs. 26 %; Tenby, 3·8 hrs. (- 2·0) 28 % (- 15 %); Torquay, 3·3 hrs. (- 2·3) 25 % (- 17 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, April 12th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	44	42	43·1	-0·7	SCOTLAND, W. ..	Lamlash	47	43	45·2	+0·3
	Kirkwall	46	42	44·5	+1·1		Ballantrae	45	43	44·2	-0·4
	Wick	44	43	43·5	-0·2	ENGLAND, N.W. ..	Port Erin	48	44	45·7	+0·6
	Cromarty	45	41	43·2	+0·6		Newquay	48	48	48·0	-0·5
SCOTLAND, E. ..	Pennan Bay	45	41	44·1	+0·9	ENGLAND, S.W. ..	Scilly	49	49	49·0	—
	Aberdeen, Cove Bay	43	43	43·0	-0·2		Plymouth‡	49	48	48·3	+0·4
ENGLAND, N.E. ..	Burnmouth, Berwick	42	40	41·3	-0·4		Salcombe	50	46	48·5	+1·6
	Scarborough	44	40	42·0	-1·0	IRELAND, N.W. ..	Sheephaven	48	46	47·1	+0·2
ENGLAND, E. ..	Shipwash Lightship	47	43	45·4	+2·2		Teelin	50	45	47·6	0·0
	Margate‡	49	47	47·3	+1·7	IRELAND, S.W. ..	Cleggan	49	46	47·6	+0·7
ENGLAND, S.E. ..	Eastbourne‡	46	45	45·7	+0·4		Seafield	54	48	51·6	+2·2
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIFTEENTH WEEK—April 6th to April 12th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	60	24	45·9	35·0	40·2	− 1·7	11	− 12	25	+ 3	3	− 2	0·45	−0·25	1·7	−2·8	13	−21
Eastern.																		
1. SCOTLAND, EAST ...	60	27	46·1	35·0	40·3	− 2·0	11	− 19	26	+ 3	4	0	0·41	−0·02	1·9	−2·9	14	−21
2. ENGLAND, N.E.	51	29	45·2	36·8	40·8	− 2·6	9	− 18	19	+ 3	4	+ 1	0·54	+0·19	1·7	−3·3	13	−24
3. ENGLAND, EAST ...	52	31	46·2	37·2	41·5	− 3·1	12	− 25	18	+ 3	4	0	0·64	+0·27	2·5	−2·9	18	−20
4. MIDLAND COUNTIES ...	55	28	47·4	36·6	41·8	− 2·8	15	− 24	21	+ 4	3	0	0·51	+0·11	2·2	−2·5	17	−18
5. ENGLAND, S.E.	55	32	48·3	38·5	43·1	− 2·9	22	− 18	10	0	3	0	0·44	+0·11	2·9	−2·3	21	−17
Western.																		
6. SCOTLAND, WEST ...	63	27	50·7	36·1	43·0	− 0·7	32	+ 2	17	+ 1	3	− 1	0·54	−0·08	3·7	−1·4	27	−11
7. ENGLAND, N.W.	60	30	48·8	38·0	43·2	− 1·4	25	− 7	11	− 1	3	0	0·43	−0·04	2·8	−1·9	21	−14
8. ENGLAND, S.W.	58	27	49·6	39·1	44·1	− 1·9	27	− 11	8	0	2	− 2	0·18	−0·32	3·1	−2·2	24	−17
9. IRELAND, NORTH ...	59	29	51·6	39·1	45·0	+ 0·1	33	− 1	8	− 3	3	− 1	0·32	−0·21	5·5	+0·7	40	+ 5
10. IRELAND, SOUTH ...	60	30	53·8	40·6	46·9	+ 0·6	40	− 1	4	− 4	2	− 2	0·06	−0·51	5·8	+0·5	43	+ 4
11. ENGLISH CHANNEL ...	54	37	50·6	43·0	46·6	− 1·6	32	− 12	0	− 1	1	− 3	0·03	−0·39	3·3	−2·9	25	−22

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 6 Weeks, March 2nd to April 12th, 1913.

0. SCOTLAND, NORTH ...	60	21	*	*	*	*	72	− 18	162	− 6	28	− 1	6·40	+ 0·89	3·2	−0·4	26	− 3
Eastern.																		
1. SCOTLAND, EAST ...	60	16	*	*	*	*	75	− 48	191	+ 10	28	+ 4	4·16	+ 1·21	4·0	0·0	32	0
2. ENGLAND, N.E.	57	20	*	*	*	*	113	− 17	127	− 14	26	+ 5	3·19	+ 0·87	3·6	−0·8	30	− 6
3 ENGLAND, EAST ...	58	24	*	*	*	*	170	0	75	− 73	25	+ 5	2·86	+ 0·77	3·4	−1·1	28	− 9
4. MIDLAND COUNTIES ...	60	23	*	*	*	*	161	− 16	111	− 41	25	+ 6	4·18	+ 1·82	3·2	−0·8	26	− 7
5. ENGLAND, S.E.	57	24	*	*	*	*	178	− 2	50	− 56	27	+ 9	3·47	+ 1·21	3·6	−0·8	29	− 7
Western.																		
6. SCOTLAND, WEST ...	63	21	*	*	*	*	135	+ 10	115	− 17	27	+ 3	5·07	+ 0·61	3·9	−0·2	31	− 2
7. ENGLAND, N.W.	60	21	*	*	*	*	136	0	97	− 18	28	+ 6	4·77	+ 1·62	3·9	+0·1	31	0
8. ENGLAND, S.W.	58	20	*	*	*	*	167	− 9	64	− 24	27	+ 5	5·07	+ 1·62	3·7	−0·8	31	− 6
9. IRELAND, NORTH ...	59	25	*	*	*	*	150	− 1	108	0	29	+ 3	4·28	+ 0·73	4·4	+0·5	36	+ 4
10. IRELAND, SOUTH ...	60	23	*	*	*	*	186	− 6	80	− 2	29	+ 6	4·55	+ 0·70	4·6	+0·2	37	+ 1
11. ENGLISH CHANNEL ...	57	34	*	*	*	*	222	+ 13	2	− 27	23	0	3·26	+ 0·43	4·2	−1·1	34	−10

THE YEAR.—Aggregates, &c., for the Period of 15 Weeks, December 29th, 1912, to April 12th, 1913.

0. SCOTLAND, NORTH ...	60	21	*	*	*	*	140	− 10	388	−110	71	− 4	15·68	−0·79	1·8	−0·5	19	− 4
Eastern.																		
1. SCOTLAND, EAST ...	60	11	*	*	*	*	129	− 62	533	− 25	65	+ 6	9·02	+1·08	2·3	−0·5	23	− 5
2. ENGLAND, N.E.	57	18	*	*	*	*	194	− 16	385	− 57	61	+ 7	7·07	+1·36	2·3	−0·7	23	− 7
3. ENGLAND, EAST ...	58	20	*	*	*	*	277	+ 17	284	−203	58	+ 4	6·41	+0·95	2·5	−0·6	24	− 6
4. MIDLAND COUNTIES ...	60	13	*	*	*	*	272	− 9	373	−115	59	+ 7	8·97	+2·43	2·1	−0·6	21	− 6
5. ENGLAND, S.E.	57	22	*	*	*	*	317	+ 19	212	−153	57	+ 7	8·43	+1·72	2·7	−0·3	26	− 4
Western.																		
6. SCOTLAND, WEST ...	63	17	*	*	*	*	235	+ 21	308	− 86	65	+ 1	14·01	+0·70	2·2	−0·5	21	− 5
7. ENGLAND, N.W.	60	10	*	*	*	*	243	+ 13	290	− 76	63	+ 5	10·65	+1·83	2·4	−0·2	24	− 2
8. ENGLAND, S.W.	58	19	*	*	*	*	330	+ 3	216	− 71	68	+10	13·58	+3·13	2·6	−0·5	26	− 4
9. IRELAND, NORTH ...	59	21	*	*	*	*	301	+ 25	269	− 56	71	+ 3	11·56	+1·48	2·6	−0·1	26	− 1
10. IRELAND, SOUTH ...	60	22	*	*	*	*	385	+ 7	225	− 22	73	+12	14·34	+2·94	2·7	−0·4	27	− 3
11. ENGLISH CHANNEL ...	60	32	*	*	*	*	487	+ 59	38	− 70	63	− 1	9·98	+1·24	3·1	−0·6	30	− 6

M.O., April 16, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 61

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.: or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH: or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) | No. 16. | SIXTEENTH WEEK, SUNDAY, APRIL 13TH, TO SATURDAY, APRIL 19TH, 1913. | Price 6d. Annual Subscription Post Paid £1 10s. 0d

I.—General Remarks.

Weather. Over England the week opened with fair dry weather, but a change soon spread in from the westward, and for the remainder of the period measurable quantities of precipitation were experienced daily in nearly all districts. During the latter half of the week the rain was mingled in many instances with hail or snow, and was accompanied locally by sharp thunderstorms.

Temperature was below the average, the excess varying from about 2½° in Scotland and in Ireland North, to less than 1° in England North-East. The highest readings occurred at various times in different parts of the country, but mainly between the 14th and 16th, when the thermometer rose to between 56° and 58° in nearly all the English and Irish districts. In England North-West and Scotland East it did not exceed 54°, and in Scotland North and West it only reached 52.° The lowest readings were observed very generally on the 13th, when sharp frost occurred over the entire eastern half of the Kingdom. In England North-East and East the sheltered thermometer fell to 24,° in the Midland Counties to 22,° and in Scotland East (at Balmoral) to 18°. On the surface of the grass the lowest readings reported were 12° at Kew, 13° at Raunds, 15° at Balmoral, and 16° at Birmingham. At a depth of 1 foot the mean temperature of the soil was below the average, and in England East the deficit was considerable. At a depth of 4 feet it agreed more closely with the normal, and was, in many places, slightly above it.

Mean Temperature of the Sea was lower than in the corresponding week of last year, and was below the normal in nearly all localities, the only district with anything like a general excess being the north-east coast of Scotland. The mean values ranged from 51·5° at Seafield and 50° at Scilly, to 42·3° at Scarborough and 41·4° at Burnmouth.

Rainfall was in excess of the average in all districts, the difference being considerable in the west and extreme north. The individual falls were as a rule only moderate, but on the 15th amounts varying between 1·0 in. and 1·5 in. were recorded locally in Wales and some adjacent English districts, the largest measurement reported being 1·7 in. at Arlington.

Barometer and Wind. Shortly after the commencement of this period the borders of a large cyclonic disturbance extended southwards from the Icelandic region, and occasioned a shift of wind to the South and South-West over the whole of the United Kingdom. The force was at first only light or moderate, but on the night of the 15th, when a deep secondary depression skirted our extreme western coasts, a gale from South or South-West was experienced in nearly all districts. The main disturbance remained for some days almost stationary over Iceland or its immediate heighbourhood, but between the 16th and 18th numerous small secondaries passed from west to east across the United Kingdom, and occasioned sharp squalls, accompanied in some instances by thunder, lightning and hail. Towards the close of the week the barometric minimum in the far north moved south-eastwards to Scotland, the wind veering to the Northward of West on all our western and northern coasts, and blowing with the force of a gale in the Irish Sea and the north of Ireland.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 63.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland N.	10. Ireland, S.	11. English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient
	Rainfall ...	Very heavy	Heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy	Very heavy	Very heavy	Heavy	Heavy
	Sunshine ...	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Scanty	Moderate	Scanty	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 7 weeks from March 2nd, 1913.	Warmth ...	1 * 3	0 * 3	2 * 2	3 * 1	3 * 1	3 * 1	2 * 1	2 * 2	1 * 0	1 * 2	1 * 1	2 * 2
	Rainfall ...	4 * 2	3 * 1	3 * 2	3 * 0	4 * 0	3 * 0	4 * 2	4 * 1	3 * 1	4 * 1	3 * 1	3 * 1
	Sunshine ...	2 * 1	2 * 1	1 * 2	0 * 4	1 * 3	0 * 2	1 * 3	1 * 1	0 * 3	2 * 1	1 * 2	0 * 5

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(29676—24.) Wt. 196—786. 450. 4/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
0. SCOTLAND, N.	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
p Baltasound .. S	*48*	*16, 18, 19*	*30*	*13th*	*47·4*	*37·4*	*42·2*	—	*21*	*13*	•	•	41·5	•	•	•	*7*	*0·41*	—	*7·2*	—	*49*	—	*Baltasound.*
a Lerwick	47	14, 16, 18	32	13th	46·3	38·4	42·2	+ 0·7	17	10	•	•	•	•	•	•	5	0·43	—	5·3	+ 0·3	37	+ 2	Deerness.
a, Islands .. *a* Stornoway	48	17, 19	33	13th	46·1	36·0	40·8	- 2·6	11	22	•	•	•	•	•	•	7	2·10	+ 1·44	4·0	- 1·4	28	−10	Stornoway.
a Castlebay, Barra Isd. .	*48*	*14th*	*36*	*17th*	*46·3*	*38·3*	*42·1*	- *3·7*	*16*	*10*	•	•	•	•	•	•	7	*1·07*	—	*4·5*	—	*32*	—	*Castlebay.*
a Wick	48	14, 15	29	13th	46·7	34·9	40·5	- 2·8	13	26	•	•	•	•	•	•	5	0·27	- 0·17	•	•	•	•	
b, Mainland. *p* Strathpeffer ..	52	14th	28	13th	49·3	35·3	42·0	- 1·7	20	19	•	•	•	•	•	•	7	0·84	+ 0·43	5·4	+ 0·5	38	+ 3	Strathpeffer.
p Glencarron ..	47	14, 15	26	13th	45·6	33·3	39·2	- 3·3	10	31	•	•	•	•	•	•	7	3·24	+ 2·03	•	•	•	•	
p Fort Augustus..	49	15th	27	13th	46·4	34·9	40·4	- 3·3	12	26	•	•	•	•	•	•	7	1·80	+ 1·28	2·4	- 1·5	17	−10	Fort Augustus.
p Fort William ..	49	13, 15	29	13th	47·6	34·6	40·8	- 4·2	16	28	•	•	•	•	•	•	7	3·57	+ 2·64	•	•	•	•	
1. SCOTLAND, E.											4	17	41·5	-1·7	41·7	−0·3	—	—	—	4·6	—	32	—	Crathes S.
p Gordon Castle.. S	54	14th	28	13th	50·6	35·9	42·9	- 1·1	32	17	•	•	•	•	•	•	3	0·28	- 0·10	*4·9*	—	*34*	—	*Gordon Castle.*
a Nairn	53	15th	23	13th	50·1	31·7	40·5	- 3·4	23	39	•	•	•	•	•	•	5	0·30	- 0·02	5·1	—	36	—	Nairn.
a Aberdeen ..	52	16th	28	13th	48·6	35·7	41·8	- 2·0	18	24	•	•	•	•	42·0	−0·4	4	0·56	+ 0·11	5·1	- 0·2	36	- 1	Aberdeen.
a Balmoral ..	51	18th	18	13th	48·9	29·0	38·5	- 2·1	19	47	6	15	•	•	•	•	4	0·59	+ 0·06	•	•	•	•	Balmoral.
p Crieff	51	19th	30	13th	?47·6	34·3	40·6	- 4·1	16	28	•	•	•	•	•	•	6	1·33	+ 0·83	4·5	—	32	—	Balruddery.
a Leith	52	14, 15, 18	33	13, 14	50·6	37·7	43·8	- 1·5	31	12	•	•	•	•	•	•	6	0·51	+ 0·23	•	•	•	•	
p West Linton .. S	50	17, 18	28	18th	47·9	32·6	39·9	- 1·9	17	35	4	20	•	•	•	•	5	*0·99*	—	*4·0*	—	*28*	—	*West Linton.*
p Marchmont .. S	50	18th	28	13th	48·6	34·1	41·0	- 1·8	18	30	3	22	42·0	−1·0	•	•	5	0·80	+ 0·32	4·3	- 0·5	31	- 3	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	53	14, 16, 18	28	13th	51·4	37·4	44·1	+ 0·5	34	13	2	22	41·1	−2·0	42·4	−0·5	5	0·62	+ 0·19	5·5	—	39	—	Cockle Park.
a Shields	56	16th	30	13th	51·4	35·4	43·0	- 1·1	35	18	•	•	•	•	•	•	6	0·36	+ 0·02	•	•	•	•	
p Durham	52	15th	29	13th	49·3	36·4	42·5	- 1·3	27	16	1	24	•	•	•	•	5	0·52	+ 0·18	4·8	+ 0·3	34	+ 2	Durham.
a, North .. *p* Rounton	54	15th	27	13th	51·3	35·9	43·2	- 0·5	34	17	3	22	42·6	•	•	•	5	0·42	+ 0·04	•	•	•	•	Rounton.
a West Witton	*52*	*15th*	*30*	*13th*	*48·3*	*38·0*	*42·9*	—	*23*	*11*	1	26	42·3	•	40·8	•	*6*	*1·16*	—	•	•	•	•	*West Witton.*
p Scarborough	56	15th	34	13th	51·6	37·8	44·4	- 0·1	34	12	•	•	•	•	43·8†	•	5	0·29	- 0·11	4·6	—	33	—	Scarborough.
p York	55	15th	30	13th	51·9	38·3	44·8	- 1·2	35	10	•	•	43·4	-1·8	43·9	0·0	6	0·60	+ 0·20	2·9	- 1·7	21	−12	York.
											3	20	43·0	−2·2	43·6	+0·1	—	—	—	*2·4*	—	*17*	—	*Hull.*
a Spurn Head	54	17th	33	13th	49·7	37·1	43·1	- 1·8	28	14	•	•	•	•	•	•	5	0·46	+ 0·20	?	?	?	?	*Spurn Head.*
b, South .. *a* Lincoln	58	16th	27	13th	52·7	37·9	44·9	- 1·3	38	11	•	•	42·2	-2·9	43·1	−0·8	5	0·58	+ 0·24	•	•	•	•	Lincoln.
a Fulbeck	56	15, 16	24	13th	51·7	37·1	44·1	- 2·1	35	14	4	17	44·3	-4·1	44·2	−0·8	4	0·16	- 0·19	5·3	—	38	—	Rauceby.
											•	•	•	•	•	•	—	—	—	5·3	—	38	—	Skegness.
											3	26	44·6	-2·6	45·2	−0·3	—	—	—	*4·4*	—	*32*	—	*Lowestoft.*
3. ENGLAND, E.											•	•	•	•	•	•	6	0·43	—	4·4	•	32	•	Cromer.
p Cromer	56	15, 18	31	13th	52·4	36·4	44·0	- 0·3	38	16	•	•	•	•	•	•	6	0·76	+ 0·36	4·0	- 1·2	29	- 9	Lit. Massingham
p Little Massingham ..	55	15th	31	13th	51·0	35·7	43·0	- 2·7	33	18	4	24	•	•	•	•	6	0·48	+ 0·13	4·4	—	32	—	Yarmouth.
a, North .. *a* Yarmouth	57	15th	33	13, 14	51·7	36·7	43·8	- 0·8	35	15	•	•	45·1	-3·8	47·0	−0·1	6	0·81	+ 0·44	4·6	- 0·5	33	- 4	Rothamsted.
a Norwich	58	16th	29	14th	52·7	36·0	44·0	- 1·2	39	17	4	24	42·9	•	•	•	7	0·62	—	*3·6*	—	*26*	—	*Norwich.*
p Geldeston	53	15, 18	30	13th	49·9	35·9	42·6	- 3·1	30	17	•	•	•	•	•	•	6	0·33	- 0·03	3·3	- 2·1	24	−16	Geldeston.
p Cambridge	58	15, 16	25	13th	53·6	34·3	43·5	- 3·2	43	22	4	19	44·7	-3·0	45·5	−1·7	6	0·50	+ 0·15	4·9	- 0·5	35	- 4	Cambridge.
a Felixstowe	*55*	*15, 16, 19*	*29*	*13th*	*51·9*	*38·4*	*44·8*	- *0·9*	*35*	*10*	•	•	•	•	•	•	*5*	*0·29*	—	*4·3*	—	*31*	—	*Felixstowe.*
a Clacton-on-Sea ..	55	16, 19	31	13th	51·6	37·9	44·4	- 1·2	34	11	2	24	44·9	-2·4	46·3	−0·7	6	0·41	—	4·4	—	32	—	Clacton.
b, South .. *a* Rothamsted	56	16th	24	13th	52·1	35·4	43·4	- 2·3	38	18	•	•	•	•	•	•	5	0·81	+ 0·44	4·6	- 0·5	33	- 4	Rothamsted.
a Shoeburyness	*57*	*16th*	*30*	*13th*	*51·6*	*38·7*	*44·8*	- *2·8*	*33*	*9*	4	21	45·4	-2·9	•	•	*4*	*0·27*	+ *0·02*	*4·7*	—	*34*	—	*Southend.*
p Tottenham	57	16th	30	13th	51·0	39·1	44·8	- 2·0	32	8	2	23	•	•	46·0	0·0	5	0·55	—	4·3	—	31	—	Tottenham.
4. MIDLAND COUNTIES.											3	22	42·4	-2·3	42·2	+0·2	—	—	—	*3·7*	—	*26*	—	*Huddersfield.*
a Harrogate	52	15th	28	13th	49·0	36·6	42·5	- 1·7	26	15	3	20	41·4	-2·2	42·1	−1·2	7	0·80	+ 0·37	4·4	—	31	—	Harrogate.
a Bawtry	56	16th	26	13th	52·6	36·9	44·4	- 1·7	38	14	3	18	44·1	•	44·1	•	5	0·30	- 0·03	4·4	- 0·1	31	0	Worksop.
p Buxton	*52*	*18th*	*28*	*13th*	*47·7*	*34·7*	*40·9*	- *1·8*	*16*	*27*	3	20	41·9	-2·5	42·4	+0·1	*7*	*1·96*	+ *1·28*	*3·7*	—	*26*	—	*Buxton.*
a, East .. *a* Nottingham	56	16th	27	13th	51·9	35·7	43·4	- 2·6	36	18	2	23	43·7	-1·7	42·5	−0·8	7	0·71	+ 0·35	4·3	—	31	—	Nottingham.
p Birmingham, Edgbsn.	53	16th	31	13th	49·9	36·4	42·8	- 3·1	29	16	3	17	42·2	-1·8	44·0	−0·1	6	0·80	+ 0·38	4·1	—	30	—	Birmingham.
a Raunds	58	15th	22	13th	53·6	34·9	43·8	- 1·9	42	20	1	13	43·4	•	45·0	•	5	0·63	—	•	•	•	•	Raunds.
p Oxford	56	15th	26	13th	51·9	37·7	44·5	- 2·4	36	12	2	20	•	•	•	•	7	0·74	+ 0·40	4·2	- 0·9	30	- 6	Oxford.
											3	21	42·4	-1·8	42·5	−0·2	—	—	—	5·5	—	49	—	Sheffield.
a Cheadle	52	15th	28?	13th	49·4	?36·9	42·9	- 2·0	28	14	4	24	•	•	•	•	4	1·10	+ 0·64	•	•	•	•	Cheadle.
p Shrewsbury	55	15th	27	13th	52·0	37·4	44·4	- 2·6	36	13	2	24	•	•	•	•	6	0·77	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	56	16th	29	13th	52·0	38·6	45·0	- 1·9	35	10	1	24	•	•	•	•	6	1·21	- 0·81	•	•	•	•	Hereford.
a Cirencester	53	15, 16	25	13th	50·6	35·3	42·6	- 2·8	32	19	2	26	44·1	•	44·8	•	5	1·42	+ 1·01	3·8	- 1·5	27	−11	Cirencester.
a Bath	56	15, 16	30	17th	53·0	38·4	45·4	- 1·6	39	10	•	•	46·6	-1·5	47·6	+0·7	5	1·05	+ 0·60	4·6	—	33	—	Bath.
5. ENGLAND, S.E.											4	23	45·0	-1·9	47·3	+0·9	—	—	—	•	•	•	•	Canterbury.
p Kew	56	16th	30	13th	52·0	37·9	44·6	- 2·6	35	11	4	12	44·6	-2·5	46·0	+0·3	5	0·66	+ 0·33	4·5	- 0·6	32	- 4	Kew.
a Marlborough											•	•	•	•	•	•	—	—	—	•	•	•	•	Marlborough.
a Margate	55	16th	33	14th	51·7	38·9	45·0	- 1·8	34	9	2	24	45·9	-0·9	47·0	+1·6	5	0·17	- 0·13	4·8	- 0·5	35	- 3	Margate.
a Wisley, Surrey ..	54	19th	27	13th	50·9	37·9	44·1	- 3·9	32	11	4	16	44·7	-2·2	45·6	−0·3	5	0·50	—	4·5	—	32	—	Wisley
											2	25	46·4	-1·8	47·1	+0·7	—	—	—	5·3	- 0·2	38	- 1	Worthing.
p Salisbury	56	16th	25	13th	52·4	37·1	44·4	- 3·1	37	14	2	21	46·4	•	•	•	5	1·01	+ 0·48	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	54	19th	27	13th	50·0	38·9	44·2	- 2·1	28	9	•	•	•	•	•	•	5	0·48	+ 0·18	4·4	—	32	—	Littlestone.
p Hastings..	53	15th	32	13th	49·6	39·1	44·1	- 2·7	27	8	2	27	46·0	•	46·7	•	5	0·73	+ 0·36	*4·6*	- *1·3*	*33*	- *9*	*Hastings.*
p Southampton	56	16th	28	13th	52·1	38·4	44·9	- 3·8	35	10	2	20	•	•	•	•	5	0·86	+ 0·44	4·5	- 1·2	32	- 8	Southampton
a Ventnor	54	19th	34	13th	52·0	41·6	46·6	- 1·6	34	1	2	23	•	•	•	•	5	0·31	- 0·08	4·7	- 1·4	34	−10	Ventnor.
											2	19	46·9	-2·1	48·0	+0·1	—	—	—	*5·1*	—	*37*	—	*Portsmouth.*
											•	•	46·3	•	47·7	•	—	—	—	5·0	- 0·8	36	- 6	Eastbourne.
											•	•	45·5	•	46·4	•	—	—	—	*4·4*	—	*32*	—	*Bournemouth.*
LONDON,											1	27	•	•	48·4	•	—	—	—	*5·2*	- *0·6*	*37*	- *5*	*Brighton.*
a Westminster	*58*	*16th*	*33*	*13th*	*53·1*	*39·6*	*46·0*	- *1·3*	*38*	*7*	3	26	•	•	•	•	*5*	*0·64*	+ *0·32*	*3·6*	- *0·3*	*26*	- *2*	*Westminster.*
a Greenwich	*58*	*16th*	*29*	*13th*	*53·6*	*37·3*	*45·1*	- *2·2*	*41*	*13*	4	18	•	•	•	•	*6*	*0·52*	+ *0·20*	*3·8*	- *1·2*	*37*	- *9*	*Greenwich.*
a Hampstead	*56*	*16th*	*30*	*13th*	*51·6*	*37·9*	*44·1*	—	*32*	*11*	4	18	•	•	•	•	*6*	*0·76*	—	*4·5*	—	*32*	—	*Hampstead.*
a Camden Square ..	*58*	*16, 19*	*26*	*13th*	*54·3*	*37·6*	*45·6*	—	*44*	*19*	3	23	•	•	•	•	*6*	*0·83*	—	*3·9*	—	*28*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	49	17th	33	13th	47·3	36·9	41·9	- 3·3	15	20	•	•	•	•	•	•	7	2·02	+ 1·43	•	•	•	•	
p Glasgow .. .. S	50	14, 15	35	13, 19	48·3	38·1	43·0	- 1·9	23	11	1	30	•	•	•	•	6	1·23	+ 0·76	3·2	- 1·1	23	- 8	Glasgow.
p Rothesay .. S	52	18th	34	13th	49·6	38·1	43·6	- 1·9	28	11	•	•	•	•	44·5	+0·4	6	1·73	+ 1·08	•	•	•	•	
a Kilmarnock ..	50	14, 16, 18	35	13, 17, 19	49·1	37·4	43·0	- 1·9	26	13	•	•	•	•	•	•	6	1·15	—	*3·6*	—	*26*	—	*Kilmarnock.*
a Colmonell ..	52	18th	33	13th	49·3	37·7	43·2	- 2·0	26	12	0	31	•	•	•	•	6	1·17	+ 0·62	•	•	•	•	
p Dumfries ..	50	18th	30	15th	47·9	36·0	41·7	- 3·8	17	23	2	30	43·9	•	44·0	•	7	1·37	+ 0·85	*4·1*	—	*29*	—	*Dumfries.*
p Cally, Gatehouse S	50	17th	31	14th	47·4	34·9	40·9	- 3·9	15	27	•	•	•	•	•	•	7	1·37	+ 0·67	•	•	•	•	
b I. OF MAN																								
p Douglas	49	15th	36	13th	47·4	39·1	43·1	- 2·0	20	8	0	31	•	•	•	•	7	0·97	+ 0·39	4·8	- 1·3	34	- 9	Douglas.
											1	25	42·6	-1·2	42·6	+0·4	—	—	—	*4·1*	—	*29*	—	*Burnley.*
											1	27	•	•	•	•	—	—	—	5·7	—	41	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	51	15th	34	13th	48·4	37·9	42·9	- 1·5	24	11	0	31	45·0	•	44·2	•	7	1·79	+ 1·28	3·9	—	28	—	Aspatria.
p Newton Rigg	50	15th	32	13th	47·6	36·7	41·9	- 1·8	16	21	1	28	44·0	-0·5	42·9	+0·1	7	1·84	+ 1·34	3·9	- 1·2	28	- 8	Newton Rigg.
p Stonyhurst	51	15th	33	13th	48·6	38·7	43·4	- 1·3	24	9	3	28	•	•	•	•	7	1·57	+ 0·94	3·1	- 2·0	22	−14	Stonyhurst.
p Blackpool	52	15th	31	13th	50·1	40·0	44·8	- 0·8	28	6	1	19	44·7	•	44·8	•	6	1·33	+ 0·90	3·7	- 1·6	26	−11	Blackpool.
p Manchester (Whit. Pk.)	53	15th	34	13th	50·1	39·6	44·6	- 2·6	28	7	•	•	•	•	•	•	7	1·22	+ 0·79	*3·7*	*0·0*	*26*	*0*	*Whit. Park.*
a Liverpool (Bidston) ..	53	15th	33	13th	50·4	38·6	44·2	- 1·6	30	10	•	•	•	•	•	•	5	0·33	+ 0·05	*5·0*	—	*36*	—	*Liverpool.*
a Hawarden Bridge ..	54	18th	31	13th	51·6	41·7	46·4	- 0·8	32	1	1	22	45·5	-1·7	44·7	−0·9	5	0·42	+ 0·12	*4·8*	- *0·7*	*34*	- *5*	*Southport.*
											0	32	43·0	-1·4	44·7	+0·3	—	—	—	*3·7*	—	*26*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	54	15th	34	13th	51·3	40·6	45·7	- 1·1	32	4	•	•	•	•	•	•	6	1·19	+ 0·78	5·3	0·0	38	0	Llandudno.
a Holyhead	51	17th	37	13th	49·7	40·4	44·8	- 1·4	26	4	•	•	•	•	•	•	4	0·92	+ 0·46	*4·1*	—	*30*	—	*Holyhead.*
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	•	•	•	•	Aberdovey.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	•	•	•	3·5	—	25	—	
a Llangammarch Wells	51	16, 17	33	13, 17	48·4	38·6	43·3	− 1·5	23	10	2	28	44·0	−1·4	44·5	−0·1	7	2·78	—	3·9	—	28	—	Aberystwyth.
a Pembroke	50	13th	37	13th	48·7	41·1	44·7	− 1·6	23	3	•	•	•	•	•	•	5	1·29	+ 0·83	5·2	− 0·8	37	− 6	Llangammarch
p Cardiff	56	15th	34	13th	50·7	39·6	44·9	− 3·3	30	7	2	27	45·7	−1·2	45·8	+0·7	5	2·27	+ 1·70	*4·7*	—	*34*	—	Pembroke.[Wells
																								Cardiff.
b, ENGLAND, S.W.																								
a Clifton	55	15th	36	13th	51·9	41·7	46·6	− 1·2	33	1	0	32	•	•	•	•	5	1·26	+ 0·74	*4·6*	—	*33*	—	*Clifton.*
a Shaftesbury	52	16th	30	13th	48·9	37·0	42·7	− 3·0	26	14	•	•	44·2	•	45·4	•	4	0·70	+ 0·17	•	•	•	•	Shaftesbury.
a Arlington	51	14th	34	17th	49·1	38·7	43·7	− 2·0	26	9	•	•	•	•	•	•	4	2·31	+ 1·63	•	•	•	•	Arlington.
a Newquay	*54*	*15th*	*38*	*17th*	*50·9*	*42·6*	*46·6*	− *1·2*	*32*	*0*	•	•	48·2	•	•	•	*6*	*1·19*	+ *0·73*	4·8	− 1·0	35	− 7	Newquay.
a Cullompton	55	15th	32	17th	52·7	38·9	45·5	− 1·6	38	9	3	29	46·7	•	•	•	5	0·65	+ 0·14	3·5	− 1·7	25	−12	Cullompton.
a Portland	52	19th	34	13th	49·4	42·6	45·8	− 1·5	27	0	•	•	•	•	•	•	5	0·49	—	*4·3*	—	*21*	—	*Weymouth.*
p Plymouth	54	16, 19	37	14th	51·7	42·2	46·7	− 1·4	33	0	1	29	47·8	−1·1	•	•	5	1·08	+ 0·56	3·6	− 2·1	26	−15	Plymouth.
p Falmouth	53	16th	40	14th	51·1	42·6	46·7	− 1·0	33	0	•	•	•	•	•	•	6	1·62	+ 1·02	4·5	− 1·6	33	−12	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	50	14th	37	17, 19	47·3	38·1	42·5	− 2·8	20	11	•	•	•	•	•	•	7	1·57	+ 1·14	•	•	•	•	•
a Blacksod Point ..	53	14th	36	17th	49·0	38·9	43·7	− 3·2	25	9	•	•	•	•	•	•	7	1·88	+ 1·22	•	•	•	•	•
p Markree Castle ..	56	14th	32	13th	50·7	36·0	43·0	− 2·5	32	17	4	27	46·5	•	45·8	•	7	1·46	+ 0·88	3·3	− 1·7	24	−12	Markree Castle.
a Birr Castle	55	14th	34	13th	50·7	36·9	43·5	− 2·8	32	14	•	•	•	•	•	•	7	0·95	+ 0·47	*4·2*	− *0·9*	*30*	− *7*	*Birr Castle.*
b, East .. { *p* Armagh	55	14th	37	13, 15	50·6	38·1	44·1	− 1·6	31	11	0	33	45·5	−0·6	45·3	−0·2	6	0·69	+ 0·21	4·7	− 0·2	34	− 1	Armagh.
a Donaghadee	53	14th	36	17, 18	49·4	37·9	43·4	− 2·1	27	11	•	•	•	•	•	•	7	0·67	+ 0·21	•	•	•	•	•
											1	29	47·1	−0·1	46·7	+0·3	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											1	23	•	•	•	•	—	—	—	4·3	− 1·2	31	− 9	Phœnix Park.
a, East .. { *p* Dublin, City	55	14th	39	13, 17	52·0	41·0	46·2	− 1·6	34	3	0	35	•	•	•	•	7	0·43	+ 0·01	•	•	•	•	Dublin City.
a Kilkenny	54	14th	33	13th	51·4	38·7	44·8	− 1·7	33	9	•	•	•	•	•	•	7	0·72	+ 0·22	•	•	•	•	•
a Waterford	55	18th	37	13th	52·0	40·9	46·2	− 0·4	34	3	•	•	•	•	•	•	5	0·53	− 0·04	•	•	•	•	•
b, West .. { *a* Birr Castle	55	14th	34	13th	50·7	36·9	43·5	− 2·8	32	14	•	•	•	•	•	•	7	0·95	+ 0·47	4·2	− 0·9	30	− 7	Birr Castle.
a Foynes	—	—	34	13, 17, 19	—	36·7	—	—	—	—	•	•	•	•	•	•	7	1·18	+ 0·63	•	•	•	•	•
a Cahir	54	18th	30	13th	51·4	37·6	44·2	− 1·8	34	12	•	•	•	•	•	•	7	1·02	—	•	•	•	•	•
a Killarney	57	18th	30	13th	53·5	38·7	45·7	− 1·5	40	9	•	•	•	•	•	•	7	1·79	+ 1·02	•	•	•	•	•
a Valencia	55	14th	34	13th	51·6	39·7	45·4	− 2·7	33	6	•	•	•	•	•	•	7	1·27	+ 0·38	2·8	− 2·5	20	−18	Valencia.
a Roche's Point	54	18th	38	17th	51·0	40·7	45·6	− 2·2	31	4	•	•	•	•	•	•	7	0·80	+ 0·17	4·0	—	29	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	55	13th	41	17th	51·9	43·6	47·6	− 1·1	39	0	•	•	•	•	•	•	6	0·96	+ 0·52	5·0	− 1·0	37	− 7	Scilly.
a Jersey, St. Aubins ..	55	15, 19	31	13th	52·7	41·1	46·6	− 2·4	36	3	•	•	•	•	•	•	5	1·04	+ 0·56	4·7	− 1·7	34	−13	St. Heliers.
a Guernsey (Villa Carey)	56	15th	38	13th	52·6	44·3	48·3	− 0·5	44	0	1	28	48·0	−1·0	48·1	−0·1	6	1·05	+ 0·60	4·0	− 2·6	29	−19	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·0 hrs. 36 %; Ramsgate, 5·1 hrs. 37 %; Rhyl, 4·6 hrs. 33 %; Salcombe, 4·2 hrs. 31 %; Tenby, 5·2 hrs. (−1·0) 37 % (−7 %); Torquay, 4·2 hrs. (−1·8) 31 % (−13 %).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, April 19th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	44	42	43·0	−1·0	SCOTLAND, W. ..	{ Lamlash	46	43	44·5	−0·9
	{ Kirkwall	45	42	43·8	+0·1		{ Ballantrae	45	43	44·1	−0·9
	{ Wick	44	43	43·5	−0·8	ENGLAND, N.W. ..	{ Port Erin	47	44	45·4	−0·2
SCOTLAND, E. ..	{ Cromarty	45	42	43·3	+0·8	ENGLAND, S.W. ..	{ Newquay	48	48	48·0	−0·9
	{ Pennan Bay	45	42	43·9	+0·4		{ Scilly	50	49	50·0	—
	{ Aberdeen, Cove Bay	43	43	43·0	−0·6		{ Plymouth‡	49	48	48·5	0·0
ENGLAND, N.E. ..	{ Burnmouth, Berwick	42	41	41·4	−0·8		{ Salcombe	49	46	48·0	+0·5
	{ Scarborough	45	39	42·3	−1·5	IRELAND, N.W. ..	{ Sheephaven	47	45	46·3	−1·1
ENGLAND, E. ..	{ Shipwash Lightship	47	44	45·9	+1·5		{ Teelin	50	45	47·1	−1·2
	{ Margate‡	—	—	—	—	IRELAND, S.W. ..	{ Cleggan	49	46	47·7	0·0
ENGLAND, S.E. ..	Eastbourne‡	47	45	46·1	−0·5	IRELAND, E.	{ Seafield	52	50	51·5	+2·1
							.. .. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.
The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.
The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.
Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.
Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

SIXTEENTH WEEK—April 13th to April 19th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	52	26	46·9	35·3	40·8	− 2·5	14	− 14	25	+ 8	6	+ 2	1·75	+1·12	4·3	−0·5	30	− 3
Eastern.																		
1. SCOTLAND, EAST ...	54	18	49·1	33·9	41·1	− 2·6	20	− 14	31	+13	5	+ 2	0·67	+0·24	4·7	−0·1	33	− 1
2. ENGLAND, N.E.	58	24	51·2	37·0	43·8	− 0·7	34	+ 2	14	+ 2	5	+ 1	0·45	+0·09	4·7	−0·2	34	− 1
3. ENGLAND, EAST ...	58	24	51·8	36·4	43·7	− 2·1	35	− 7	16	+ 4	6	+ 3	0·55	+0·19	4·3	−0·8	31	− 7
4. MIDLAND COUNTIES ...	58	22	51·4	36·8	43·8	− 2·0	34	− 9	15	+ 2	6	+ 3	0·87	+0·47	4·4	−0·4	32	− 3
5. ENGLAND, S.E.	56	25	51·3	38·7	44·7	− 2·3	33	− 12	9	+ 2	5	+ 2	0·59	+0·19	4·7	−0·6	34	− 5
Western.																		
6. SCOTLAND, WEST ...	52	30	48·3	37·3	42·6	− 2·5	24	− 12	13	+ 2	7	+ 4	1·38	+0·77	4·0	−1·1	28	− 8
7. ENGLAND, N.W.	54	31	49·6	39·4	44·4	− 1·4	28	− 9	7	− 1	6	+ 3	1·18	+0·73	4·3	−0·8	30	− 6
8. ENGLAND, S.W.	56	30	50·3	40·3	45·1	− 1·8	29	− 14	5	− 1	5	+ 2	1·45	+0·91	4·1	−1·4	30	−10
9. IRELAND, NORTH ...	56	32	49·6	37·7	43·4	− 2·5	28	− 10	12	+ 4	7	+ 3	1·20	+0·67	4·0	−0·8	29	− 6
10. IRELAND, SOUTH ...	57	30	51·7	39·3	45·2	− 2·1	34	− 10	8	+ 3	7	+ 3	0·97	+0·37	3·8	−1·4	28	−10
11. ENGLISH CHANNEL ...	56	31	52·4	43·0	47·5	− 1·4	39	− 10	0	− 1	6	+ 2	1·02	+0·55	4·6	−1·8	33	−13

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 7 Weeks, March 2nd to April 19th, 1913.

0. SCOTLAND, NORTH ...	60	21	*	*	*	*	86	− 32	187	+ 2	34	+ 1	8·15	+ 2·01	3·4	−0·4	27	− 3
Eastern.																		
1. SCOTLAND, EAST ...	60	16	*	*	*	*	95	− 62	222	+ 23	33	+ 6	4·83	+ 1·45	4·1	0·0	33	0
2. ENGLAND, N.E.	58	20	*	*	*	*	147	− 15	141	− 12	31	+ 6	3·64	+ 0·96	3·8	−0·7	30	− 6
3 ENGLAND, EAST ...	58	24	*	*	*	*	205	− 7	91	− 69	31	+ 8	3·41	+ 0·96	3·5	−1·1	28	− 8
4. MIDLAND COUNTIES ...	60	22	*	*	*	*	195	− 25	126	− 39	31	+ 9	5·05	+ 2·29	3·4	−0·7	27	− 6
5. ENGLAND, S.E.	57	24	*	*	*	*	211	− 14	59	− 54	32	+11	4·06	+ 1·40	3·8	−0·7	30	− 6
Western.																		
6. SCOTLAND, WEST ...	63	21	*	*	*	*	159	− 2	128	− 15	34	+ 7	6·45	+ 1·38	3·9	−0·4	31	− 3
7. ENGLAND, N.W.	60	21	*	*	*	*	164	− 9	104	− 19	34	+ 9	5·95	+ 2·35	3·9	−0·1	31	− 1
8. ENGLAND, S.W.	58	20	*	*	*	*	196	− 23	69	− 25	32	+ 7	6·52	+ 2·53	3·8	−0·8	30	− 7
9. IRELAND, NORTH ...	59	25	*	*	*	*	178	− 11	120	+ 4	36	+ 6	5·48	+ 1·40	4·4	+0·4	35	+ 3
10. IRELAND, SOUTH ...	60	23	*	*	*	*	220	− 16	88	+ 1	36	+ 9	5·52	+ 1·07	4·4	−0·1	36	− 1
11. ENGLISH CHANNEL ...	57	31	*	*	*	*	261	+ 3	2	− 28	29	+ 2	4·28	+ 0·98	4·2	−1·3	34	−10

THE YEAR.—Aggregates, &c., for the Period of 16 Weeks, December 29th, 1912, to April 19th, 1913.

0. SCOTLAND, NORTH ...	60	21	*	*	*	*	154	− 24	413	−102	77	− 2	17·43	+0·33	2·0	−0·4	20	− 4
Eastern.																		
1. SCOTLAND, EAST ...	60	11	*	*	*	*	149	− 76	564	− 12	70	+ 8	9·69	+1·32	2·5	−0·4	24	− 4
2. ENGLAND, N.E.	58	18	*	*	*	*	228	− 14	399	− 55	66	+ 8	7·52	+1·45	2·4	−0·7	24	− 6
3. ENGLAND, EAST ...	58	20	*	*	*	*	312	+ 10	300	−199	64	+ 7	6·96	+1·14	2·6	−0·6	25	− 6
4. MIDLAND COUNTIES ...	60	13	*	*	*	*	306	− 18	388	−113	65	+10	9·84	+2·90	2·2	−0·7	21	− 6
5. ENGLAND, S.E.	57	22	*	*	*	*	350	+ 7	221	−151	62	+ 9	9·02	+1·91	2·8	−0·4	27	− 4
Western.																		
6. SCOTLAND, WEST ...	63	17	*	*	*	*	259	+ 9	321	− 84	72	+ 5	15·39	+1·47	2·3	−0·5	22	− 5
7. ENGLAND, N.W.	60	10	*	*	*	*	271	+ 4	297	− 77	69	+ 8	11·83	+2·56	2·6	−0·2	24	− 2
8. ENGLAND, S.W.	58	19	*	*	*	*	359	− 11	221	− 72	73	+12	15·03	+4·04	2·7	−0·5	26	− 5
9. IRELAND, NORTH ...	59	21	*	*	*	*	329	+ 15	281	− 52	78	+ 6	12·76	+2·15	2·7	−0·1	26	− 1
10. IRELAND, SOUTH ...	60	22	*	*	*	*	419	− 3	233	− 19	80	+15	15·31	+3·31	2·8	−0·4	27	− 4
11. ENGLISH CHANNEL ...	60	31	*	*	*	*	526	+ 49	38	− 71	69	+ 1	11·00	+1·79	3·2	−0·7	30	− 7

M.O., April 23, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 65

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 17. SEVENTEENTH WEEK, SUNDAY, APRIL 20TH, TO SATURDAY, APRIL 26TH, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was generally in a very changeable condition, but over the major portion of Great Britain there was almost an entire absence of rain on the 22nd and 23rd. Later on the weather became unsettled in all districts, and on the 25th and 26th showers of hail, sleet or snow were experienced at many places in the west. At Cahir the snow on the 25th lay to a depth of 2 in. Thunder was heard at Kew and Oxford on the 22nd, and a thunderstorm occurred at Oxford on the 25th, and at Aberdovey on the 26th.

Temperature was above the average in Great Britain, but below it in Ireland, the difference being, however, nowhere very large. The highest readings occurred, as a rule, on the 23rd or 24th, but earlier in the week at some of the Irish stations. The actual values ranged from 68° in the Midland Counties and England South-West, and a trifle above 65° in many other parts of Great Britain to 62° in Scotland North and West, and to 61° in Ireland North. On the 25th the thermometer in many parts of Ireland failed to reach 50°. The lowest readings, which occurred at times varying greatly in different localities, ranged from 25° in Scotland East (at Balmoral), and 29° in the Midland Counties to 36° in Scotland West, and to 40° in the English Channel district. At a depth of 1 foot the mean temperature of the soil was in most places slightly above the average, but at a depth of 4 feet it was a little below it.

Mean Temperature of the Sea was above the average in most places, but was considerably lower than in the corresponding week of last year. The mean values ranged from between 50° and 52° on our extreme south-west coasts to about 43° off the east of Scotland and the north-east of England.

Rainfall amounted to less than the average in the north and east of Great Britain, but was largely in excess in most of the western districts. More than an inch fell at several of the western and northern stations on the 26th, the largest amounts reported being 1·8 in. at Llangammarch Wells, and 1·4 in. at Cullompton and Torquay.

Bright Sunshine was in excess of the normal in Scotland East and England North-East, East and South-East, but was deficient in nearly all other districts. The mean daily duration ranged from 6·6 hours (46 per cent. of the possible duration) in England East, and 6·2 hours in England South-East to 3·2 hours in Ireland South, and to 2·8 hours (19 per cent. of the possible) in Ireland North.

Barometer and Wind. Early in the week the centre of a shallow barometrical depression advanced eastward across Ireland and England, the wind being at first light to moderate from the Southward or South-Eastward, but afterwards rather variable. On the 22nd and 23rd, when an anticyclonic ridge extended temporarily from Scandinavia and Northern Russia, the wind became South-Westerly in the north, but Northerly or North-Easterly in the south. Later on two cyclonic systems of considerable intensity for the time of year advanced from the Atlantic, their centres moving northwards along our western and northern coasts, and on the 26th the wind increased to a gale from the Southward or South-Westward in many parts of the United Kingdom.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 67.	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ... Warmth ...	Moderate	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate
Rainfall ...	Moderate	Moderate	Moderate	Moderate	Heavy	Heavy	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Heavy
Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient	Deficient	Very deficient	Deficient

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 8 weeks from March 2nd, 1913. Warmth ...	1 * 3	1 * 3	3 * 2	3 * 1	3 * 1	3 * 1	2 * 1	3 * 2	1 * 0	1 * 2	1 * 1	2 * 2
Rainfall ...	4 * 2	3 * 1	3 * 2	3 * 0	5 * 0	4 * 0	5 * 2	5 * 1	4 * 1	5 * 1	4 * 1	4 * 1
Sunshine ...	2 * 1	2 * 1	1 * 2	0 * 4	1 * 3	0 * 2	1 * 4	1 * 1	0 * 4	2 * 2	1 * 3	0 * 6

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks. Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks. Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks. Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks. Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(29808—24.) Wt. 196—786. 450. 5/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*51*	*22nd*	*36*	*21st*	*49·7*	*40·1*	*44·7*	—	*27*	*5*			44·4				*3*	*0·77*	—	*6·6*	—	43	—	*Baltasound.*
a Islands .. *a* Lerwick	52	23rd	39	21st	49·3	41·6	45·3	+ 2·9	25	1							4	0·94	—	5·2	0·0	35	0	Deerness.
a Stornoway	54	24th	38	20, 22	50·6	40·9	45·5	+ 1·4	29	3							5	0·49	- 0·15	3·6	- 2·0	24	-14	Stornoway.
a Castlebay, Barra Isd.	*49*	*20, 21, 23*	*39*	*20, 26*	*48·1*	*41·9*	*44·9*	- *2·1*	*21*	*0*							*7*	*1·00*	—	*2·6*	—	*17*	—	*Castlebay.*
a Wick	57	22nd	36	20th	49·4	39·4	44·2	0·0	26	7							3	0·31	- 0·13					
b, Main- *p* Strathpeffer ..	62	24th	34	21st	55·3	39·3	46·9	+ 2·2	46	8							2	0·04	- 0·39	5·3	+ 0·3	36	+ 2	Strathpeffer.
land. *p* Glencarron ..	60	24th	36	20th	50·8	41·3	45·8	+ 2·1	30	2							6	0·57	- 0·58					
p Fort Augustus..	60	24th	32	21st	53·7	40·1	46·6	+ 1·7	40	5							3	0·16	- 0·35	2·7	- 1·3	18	- 9	Fort Augustus.
p Fort William .. S.	60	24th	38	20, 21, 26	54·6	41·4	47·7	+ 1·7	42	2							4	0·62	- 0·26					
1. SCOTLAND, E.																								
p Gordon Castle.. S	63	24th	36	21st	57·0	40·4	48·3	+ 3·2	51	4	4	26	44·2	+0·1	42·5	-0·3	—	—	—	5·6	—	38	—	Crathes S.
a Nairn	66	24th	30	21st	56·9	37·6	46·8	+ 1·8	52	12							4	0·15	- 0·22	*5·7*	—	*38*	—	*Gordon Castle.*
a Aberdeen ..	58	22nd	37	23rd	52.7	39·7	45·9	+ 1·1	37	6					42·3	-0·6	2	0·13	- 0·22	5·5	—	37	—	Nairn.
a Balmoral ..	60	23rd	25	21st	*52·4*	32·3	41·9	+ 0·1	29	38	4	22					3	0·30	- 0·16	6·3	+ 0·8	42	+ 6	Aberdeen.
p Crieff	62	24th	35	20, 21	56·4	38·3	46·9	+ 0·8	50	10							3	0·96	+ 0·44					Balmoral.
a Leith	65	24th	36	22nd	55·9	39·6	47 4	+ 1·1	48	7							4	0·57	+ 0·07	5·4	—	37	—	Balruddery.
p West Linton .. S.	62	24th	30	21st	55·4	34·6	44·5	+ 1·2	49	21	4	21					5	0·14	- 0·17					
p Marchmont .. S.	62	24th	34	21, 26	56·0	37·9	46·5	+ 2·5	49	11	1	29	45·1	+1·8			5	0·41	—	*4·9*	—	*34*	—	*West Linton.*
																	4	0·39	- 0·11	5·0	0·0	34	0	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	57	25th	33	21st	53·1	39·6	46·0	+ 1·4	38	7	1	29	44·3	+0·7	43·2	-0·3	4	0·40	- 0·03	4·4	—	30	—	Cockle Park.
a Shields	56	20th	37	20, 26	52·1	40·1	45·8	+ 0·6	35	5							4	0·36	+ 0·02					
p Durham	61	22nd	36	21st	55·3	41·3	48·0	+ 3·2	45	2	0	32					5	0·85	+ 0·49	4·1	- 0·7	28	- 5	Durham.
a, North .. *p* Rounton	63	23rd	34	20th	57·3	39·4	47·9	+ 3·2	52	7	2	28	46·4				4	0·47	+ 0·13					Rounton.
a West Witton	*64*	*22nd*	*34*	*26th*	*56·0*	*39·6*	*47·4*	—	*48*	*7*	0	31	45·9		41·5		*4*	*1·34*	—					*West Witton.*
p Scarborough	57	25th	36	20th	52·7	41·0	46·6	+ 1·0	36	3					44·1†		4	0·16	- 0·26	6·1	—	42	—	Scarborough.
p York	65	23rd	38	26th	59·0	42·1	50·1	+ 2·9	57	0			46·2	0 0	44·3	-0·4	5	0·17	- 0·24	4·4	- 0·5	30	- 3	York.
											1	30	45·7	-0·2	44·3	+0·1	—	—	—	*4·0*	—	*28*	—	*Hull.*
a Spurn Head	56	25th	38	26th	52·0	41·4	46·5	+ 0·2	34	2							2	0·11	- 0·16	*6·3*	—	*44*	—	*Spurn Head.*
b, South .. *a* Lincoln	64	23, 24	36	20th	60·6	41·0	50·3	+ 2·9	62	3			46·9	+0·7	44·0	-0·7	4	0·19	- 0·17					Lincoln.
a Fulbeck	65	24th	36	20, 26	58·9	40·4	49·2	+ 1·9	57	4	1	30	48·5	-0·9	44·9	-1·1	4	0·27	- 0·10	6·9	—	48	—	Ranceby.
																				7·0	—	49	—	Skegness.
3. ENGLAND, E.											0	33	48·7	+0·6	46·1	-0·3	—	—	—	*8·2*	—	*57*	—	*Lowestoft.*
p Cromer	61	24th	40	20th	55·6	42·1	48·5	+ 3·0	46	0							3	0·13	—	7·1		49		Cromer.
p Little Massingham ..	66	24th	35	20th	59·3	39·1	48·7	+ 1·6	59	8	4	29					4	0·19	- 0·22	6·5	+ 0·9	45	+ 7	Lit. Massingham
a, North .. *a* Yarmouth	57	25th	38	20th	53·0	42·1	47·3	+ 1·4	37	0			48·4	-1·8	47·3	-1·1	2	0·12	- 0·23	7·7	—	54	—	Yarmouth.
a Norwich											3	25	47·2				—	—	—	*7·5*	—	*52*	—	*Norwich.*
p Geldeston	60	22–24	32	24th	56·9	39·0	47·5	+ 0·5	51	8							2	0·08	- 0·30	7·7	+ 1·9	54	+13	Geldeston.
p Cambridge	65	23rd	34	24th	59·9	39·4	49·2	+ 1·2	61	7	2	29	49·2	+0·7	46·7	-0·5	3	0·16	- 0·21	5·8	+ 0·1	41	+ 1	Cambridge.
a Felixstowe	*58*	*25th*	*38*	*20th*	*53·9*	*42·7*	*48·0*	+ *1·0*	*42*	*0*							*4*	*0·18*	—	*7·9*	—	*55*	—	*Felixstowe.*
a Clacton-on-Sea ..	57	25th	39	20th	54·6	43·6	48·8	+ 2·0	48	0	0	34	48·7	+0·5	47·3	-0·6	2	0·14	—	7·5	—	52	—	Clacton.
b, South .. *a* Rothamsted	64	22, 23	34	24th	59·4	40·4	49·4	+ 2·4	59	4							5	0·56	+ 0·18	5·6	+ 0·2	39	+ 1	Rothamsted.
a Shoeburyness	*58*	*22, 25, 26*	*36*	*24th*	*56·9*	*42·3*	*49·3*	+ *0·5*	*51*	*0*	1	28	50·0	+0·9			*3*	*0·12*	- *0·14*	*7·3*		*51*	—	*Southend.*
p Tottenham	65	24th	39	24th	60·0	43·0	51·1	+ 2·8	64	0	0	33			46·8	-0·2	4	0·36	—	5·1	—	36	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	62	22, 23	35	26th	56·6	39·7	47·7	+ 2·3	50	6	0	32	46·3	+0·7	42·7	-0·1	—	—	—	*4·8*	—	*33*	—	*Huddersfield.*
a Bawtry	66	23rd	39	21st	59·4	33·3	45·7	- 1·6	62	24	1	30	44·7	+0·4	43·5	-0·6	4	0·37	- 0·07	5·1	—	35	—	Harrogate.
p Buxton	*62*	*23rd*	*34*	*26th*	*56·4*	*38·9*	*47·2*	+ *3·4*	*49*	*9*	1	30	48·3		45·5		3	0·18	- 0·17	5·6	+ 0·9	39	+ 6	Worksop.
a, East .. *a* Nottingham	66	24th	36	20th	59·3	39·9	49·1	+ 1·9	59	6	0	32	45·4	+0·2	42·8	-0·5	*5*	*0·61*	- *0·06*	*3·9*	—	*27*	—	*Buxton.*
p Birmingham, Edgbsn.	63	23rd	35	26th	56·9	40·9	48·5	+ 1·3	50	3	1	29	48·3	+2·0	44·0	-0·2	5	0·18	- 0·19	5·4	—	38	—	Nottingham.
a Raunds	66	23, 24	35	20, 26	60·6	40·1	49·9	+ 2·7	63	5	2	26	45·3	+0·5	44·4	-0·1	4	0·79	+ 0·35	3·4	—	24	—	Birmingham
p Oxford	66	23, 24	37	20th	59·6	41·6	50·2	+ 2·0	59	1	2	27	46·6		45·6		4	0·33	—					Raunds.
											0	31					6	0·63	+ 0·27	5·0	- 0·4	35	- 3	Oxford.
											0	33	45·8	+0·4	43·3	-0·2	—	—	—	4·8	—	34	—	Sheffield.
a Cheadle	61	24th	36	25th	57·4	41·7	49·2	+ 3·3	52	1	0	34					4	0·37	- 0·09					Cheadle.
p Shrewsbury	65	23rd	35	26th	59·0	41·3	49·7	+ 1·5	57	2	0	32					4	0·65	—					Shrewsbury.
b, West .. *a* Hereford	66	23rd	36	26th	58·0	42·7	50·0	+ 1·8	56	0	0	32					6	1·41	+ 0·99					Hereford.
a Cirencester	65	23rd	34	20th	58·7	40·3	49·1	+ 2·4	57	5	0	32	47·1		45·4		6	0·86	+ 0·43	5·2	- 0·5	36	- 3	Cirencester.
a Bath	68	23rd	38	20, 26	60·1	42·6	50·9	+ 2·4	62	0							5	0·60	+ 0·15	4·7	—	33	—	Bath.
5. ENGLAND, S.E.																								
											0	33	49·8	+2·0	47·7	+0·2	—	—	—					Canterbury
p Kew	66	24th	37	24th	59·9	42·4	50·7	+ 2·3	61	0	1	27	49·1	+0·9	46·6	-0·1	6	0·41	+ 0·07	5·6	+ 0·2	39	+ 1	Kew.
a Marlborough	66	23rd	33	20th	57·7	39·9	48·4	+ 1·8	54	6	1	26			47·4		6	1·14	+ 0·70	4·4	- 0·7	31	- 5	Marlborough.
a Margate	61	26th	38	20, 24	57·3	42·9	49·8	+ 1·8	55	0	0	32	48·2	+0·6	47·6		3	0·23	- 0·08	6·8	+ 1·3	48	+ 9	Margate.
a Wisley, Surrey ..	66	24th	32	24th	60·3	40·6	50·0	+ 1·0	62	4	2	25	49·1	+1·3	46·5	-0·3	5	0·48	—	5·8	—	41	—	Wisley
											0	31	51·3	+1·9	48·1	+0·7	—	—	—	6·9	—	49	—	Worthing.
p Salisbury	67	23rd	32	20th	58·1	40·1	48·7	+ 0·1	55	5	1	28	50·9				5	1·71	+ 1·18					Salisbury.
a Tunbridge Wells ..																	—	—	—					Tunbridge Wells.
a Dungeness	57	22, 23	38	24th	55·1	42·9	48·7	+ 1·2	47	0							3	0·28	- 0·02	8·0	—	56	—	Littlestone.
p Hastings.. ..	62	23rd	38	20th	56·3	44·0	49·9	+ 1·8	55	0	0	32	51·0		47·4		4	0·61	+ 0·24	*7·4*	+ *1·2*	*53*	+ *8*	*Hastings.*
p Southampton	66	23rd	38	20th	59·0	42·7	50·5	+ 0·6	60	0	0	31					5	0·84	+ 0·40	5·0	- 1·0	35	- 7	Southampton
a Ventnor	66	23rd	41	20, 26	57·4	44·9	50·9	+ 1·2	62	0							5	0·46	+ 0·09	6·5	+ 0·1	46	+ 1	Ventnor.
											1	30	51·8	+1·6	49·1	+0·3	—	—	—	*6·5*	—	*46*	—	*Portsmouth.*
													50·6		48·3		—	—	—	6·8	+ 0·6	48	+ 5	Eastbourne.
													49·4		47·8		—	—	—	*6·1*	—	*43*	—	*Bournemouth.*
LONDON.											0	35			47·9		—	—	—	*6·8*	+ *0·6*	*48*	+ *5*	*Brighton.*
a Westminster	*67*	*24th*	*39*	*20th*	*60·9*	*44·7*	*52·4*	+ *3·6*	*73*	*0*	0	32					*5*	*0·33*	*0·00*	*5·2*	+ *0·9*	*36*	+ *6*	*Westminster.*
a Greenwich	*67*	*24th*	*33*	*24th*	*61·9*	*41·4*	*51·2*	+ *2·5*	*67*	*2*	3	24					*5*	*0·33*	+ *0·02*	*5·8*	+ *0·5*	*41*	+ *4*	*Greenwich.*
a Hampstead	*64*	*24th*	*36*	*20th*	*58·4*	*42·3*	*50·0*	—	*53*	*0*	2	28					*5*	*0·49*	—	*5·8*	—	*41*	—	*Hampstead.*
a Camden Square ..	*68*	*24th*	*37*	*20, 24*	*62·6*	*42·6*	*52·1*	—	*71*	*0*	0	32					*5*	*0·33*	—	*5·0*	—	*35*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S.	57	23rd	36	26th	52·3	41·4	46·6	+ 0·3	35	2							5	1·50	+ 0·91					
p Glasgow	60	24th	38	26th	54·7	42·9	48·5	+ 2·1	46	0	0	32					4	0·29	- 0·21	4·2	- 0·4	29	- 3	Glasgow.
p Rothesay	60	23rd	38	26th	55·3	41·9	48·3	+ 1·7	45	0					45·1	+0·3	5	1·00	+ 0·35					
a Kilmarnock	61	23rd	37	20, 26	55·9	40·7	47·9	+ 1·8	47	4							4	0·29	—	*4·4*	—	*30*	—	*Kilmarnock.*
a Colmonell	62	23rd	36	20th	54·9	40·6	47·4	+ 0·9	44	4	0	33					4	1·37	+ 0·82					
p Dumfries	62	23rd	37	20, 21	56·0	40·4	47·8	+ 1·1	47	4	1	30	46·9		44·9		3	0·81	+ 0·29	*4·7*	—	*32*	—	*Dumfries.*
p Cally, Gatehouse S.	59	23rd	36	20th	54·4	41·4	47·6	+ 1·4	42	2							5	0·86	+ 0·17					
b I. OF MAN																								
p Douglas	58	23rd	39	20th	52·3	43·7	47·8	+ 1·6	41	0	0	35					5	0·88	+ 0·27	4·4	- 2·0	30	-14	Douglas.
											0	32	45·6	+1·1	42·8	-0·3	—	—	—	*3·9*	—	*27*	—	*Burnley.*
											0	33					—	—	—	4·4	—	31	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	63	23rd	34	25th	56·3	40 6	48·1	+ 2·6	49	4	0	32	47·9		45·0		4	0·75	+ 0·25	4·8	—	33	—	Aspatria.
p Newton Rigg	60	22–24	36	21st	56·3	40·9	48·2	+ 3·4	48	3	0	32	46·5	+1·1	43·5	0·0	4	1·07	+ 0·55	3·2	- 2·2	22	-15	Newton Rigg.
p Stonyhurst	62	24th	36	26th	55·7	42·6	48·8	+ 2·8	48	0	0	31					4	1·37	+ 0·74	3·9	- 1·5	27	-10	Stonyhurst.
p Blackpool	63	24th	40	20, 26	55·6	43·3	49·2	+ 2·5	50	0	0	33	47·1		45·3		4	0·95	+ 0·50	4·2	- 1·4	29	-10	Blackpool.
p Manchester (Whit. Pk.)	64	23, 24	37	26th	58·9	42·3	50·2	+ 1·6	57	0							4	0·78	+ 0·35	*3·1*	- *0·9*	*22*	- *7*	*Whit. Park.*
a Liverpool (Bidston) ..	63	24th	35	26th	57·0	42·3	49·3	+ 2·1	51	0							4	0·76	+ 0·37	*4·2*	—	*29*	—	*Liverpool.*
a Hawarden Bridge ..	65	24th	37	26th	58·7	43·7	50·8	+ 2·3	62	0	0	33	49·0	+0·3	46·6	-0·3	4	0·95	+ 0·62	*3·4*	- *2·5*	*24*	-*17*	*Southport.*
											0	36	45·1	-0·2	45·2	0·0	—	—	—	*2·2*	—	*15*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	61	24th	39	26th	56·4	43 3	49·5	+ 1·7	53	0							5	0·77	+ 0·36	5·2	- 0·4	36	- 3	Llandudno.
a Holyhead	58	23rd	40	21, 26	53·4	43 4	48·2	+ 0·9	43	0							5	0·85	+ 0·38	*5·3*	—	*37*	—	*Holyhead.*
p Bettws-y-Coed ..	64	23rd	36	26th	60·1	40·3	49·7	+ 2·1	61	5	0	38	46·9	+0·9	46·1	+0·8	5	1·00	—	3·1	—	22	—	Bettws-y-Coed
																	—	—	—	3·9		27		Aberdovey.

For notes see opposite page.

† At 3 feet

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·2	—	32	—	Aberystwyth.
a Llangammarch Wells	64	23rd	35	26th	57·6	40·0	48·4	+ 2·5	53	6	0	31	46·9	+0·6	45·2	-0·1	6	2·52	—	3·0	—	21	—	Llangammarch
a Pembroke	60	23rd	40	26th	53·1	44·7	48·7	+ 1·4	47	0	*	*	*	*	*	*	5	1·27	+ 0·82	3·6	- 2·7	25	-19	Pembroke.[Wells
p Cardiff	67	23rd	37	20, 26	57·6	42·3	49·6	+ 0·3	53	0	1	30	50·0	+0·6	46·6	+0·6	5	1·52	+ 0·96	*4·7*	—	*33*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	68	23rd	38	26th	59·9	44·7	51·9	+ 2·8	69	0	0	35	*	*	*	*	5	0·61	+ 0·10	*5·0*	—	*35*	—	*Clifton.*
a Shaftesbury	64	23rd	34	26th	55·7	40·6	47·8	+ 0·9	46	4	*	*	48·9	*	46·3	*	5	0·73	+ 0·22	*	*	*	*	Shaftesbury.
a Arlington	64	23rd	34	26th	55·0	40·7	47·5	+ 1·0	44	4	*	*	*	*	*	*	5	1·88	+ 1·21	*	*	*	*	Arlington.
a Newquay	*58*	*23rd*	*38*	*20th*	*53·4*	*42·9*	*47·9*	*- 0·9*	*41*	*0*	*	*	49·9	*	*	*	*6*	*1·73*	*+ 1·30*	3·4	- 2·7	24	-19	Newquay.
a Cullompton	68	23rd	34	20th	58·1	41·6	49·5	+ 1·2	54	1	1	28	50·1	*	*	*	7	2·21	+ 1·70	4·1	- 1·4	29	-10	Cullompton.
a Portland	63	23rd	40	26th	54·3	45·1	49·5	+ 1·1	53	0	*	*	*	*	*	*	6	0·77	—	*5·8*	—	*41*	—	*Weymouth.*
p Plymouth	63	23rd	37	20th	55·2	42·7	48·7	- 0·7	47	0	1	28	50·5	+0·5	*	*	5	1·95	+ 1·45	4·2	- 1·9	30	-13	Plymouth.
p Falmouth	59	23rd	41	20, 25, 28	53·9	45·0	49·2	+ 0·4	50	0	*	*	*	*	*	*	7	2·52	+ 1·95	4·1	- 2·4	29	-17	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	56	23, 25	37	26th	52·9	41·0	46·7	+ 0·4	37	3	*	*	*	*	*	*	5	0·80	+ 0·35	*	*	*	*	* *
a Blacksod Point ..	54	21st	36	20, 26	50·7	40·3	45·3	- 2·5	30	5	*	*	*	*	*	*	6	1·14	+ 0·49	*	*	*	*	* *
p Markree Castle ..	60	21st	32	20th	53·9	38·9	46·0	- 0·6	41	9	2	27	48·2	*	46·0	*	5	1·19	+ 0·61	2·7	- 2·5	19	-17	Markree Castle.
a Birr Castle	61	23rd	31	26th	55·6	37·6	46·2	- 1·1	48	12	*	*	*	*	*	*	5	1·49	+ 0·99	*2·5*	- *2·9*	*17*	*-20*	*Birr Castle.*
b, East .. *p* Armagh	60	22nd	34	26th	54·3	40·9	47·3	+ 0·6	42	3	0	31	47·8	+0·2	45·7	-0·6	5	0·96	+ 0·45	2·9	- 2·4	20	-15	Armagh.
a Donaghadee	54	23rd	37	26th	51·3	40·9	45·9	- 0·7	32	3	*	*	*	*	*	*	5	1·19	+ 0·72	*	*	*	*	* *
											2	30	48·5	+0·3	47·2	0·0	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											3	25	*	*	*	*	—	—	—	4·2	- 1·6	29	-11	Phœnix Park.
a, East .. *p* Dublin, City	58	22, 23	36	25, 26	55·6	41·9	48·4	- 0·4	45	0	0	33	*	*	*	*	4	0·78	+ 0·35	*	*	*	*	Dublin City.
a Kilkenny	62	23rd	30	20th	55·3	39·9	47·2	- 0·5	45	6	*	*	*	*	*	*	6	1·58	+ 1·08	*	*	*	*	* *
a Waterford	65	21st	34	26th	55·9	40·1	47·6	- 0·1	47	5	*	*	*	*	*	*	6	2·74	+ 2·21	*	*	*	*	* *
a Birr Castle	61	23rd	31	26th	55·6	37·6	46·2	- 1·1	48	12	*	*	*	*	*	*	5	1·49	+ 0·99	2·5	- 2·9	17	-20	Birr Castle.
a Foynes	64	21st	35	26th	54·7	41·4	47·7	- 0·7	42	2	*	*	*	*	*	*	5	1·58	+ 1·04	*	*	*	*	* *
b, West .. *a* Cahir	62	22, 23	31	20, 25	55·9	38·0	46·5	- 0·8	48	11	*	*	*	*	*	*	6	2·15	—	*	*	*	*	* *
a Killarney	60	23rd	35	20, 26	54·5	41·2	47·5	- 0·8	42	2	*	*	*	*	*	*	6	1·68	+ 0·93	*	*	*	*	* *
a Valencia	54	23rd	36	20th	51·3	41·7	46·3	- 2·7	31	1	*	*	*	*	*	*	6	2·49	+ 1·65	2·2	- 3·5	15	-24	Valencia.
a Roche's Point ..	60	22nd	34	26th	53·3	41·6	47·2	- 1·5	38	1	*	*	*	*	*	*	6	2·76	+ 2·14	3·7	—	26	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	59	23rd	40	26th	53·7	43·6	48·4	- 1·1	45	0	*	*	*	*	*	*	6	1·71	+ 1·28	4·1	- 2·3	29	-16	Scilly.
a Jersey, St. Aubins ..	65	23rd	40	20th	58·4	45·4	51·6	+ 1·5	67	0	*	*	*	*	*	*	5	0·46	- 0·02	6·3	- 0·5	45	- 3	St. Heliers.
a Guernsey (Villa Carey)	63	23rd	42	24, 26	56·9	45·7	51·0	+ 1·2	63	0	0	35	51·3	+1·3	49·1	+0·3	5	0·87	+ 0·34	6·2	- 0·9	44	- 6	Guernsey.*

Additional Sunshine Means:—*Bognor, 7·0 hrs. 50 °/₀; Ramsgate, 7·7 hrs. 54 °/₀; Rhyl, 5·0 hrs. 35 °/₀; Salcombe, 4·0 hrs. 28 °/₀; Tenby, 3·5 hrs. (-2·9) 25 °/₀ (-20 °/₀); Torquay, 4·7 hrs. (-1·6) 33 °/₀ (-11 °/₀).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, April 26th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	45	44	44·6	+0·4	SCOTLAND, W. ..	Lamlash	50	43	45·9	+0·3
	Kirkwall	46	44	44·9	+0·7		Ballantrae	47	44	45·5	+0·1
	Wick	45	43	43·9	-1·1	ENGLAND, N.W. ..	Port Erin	47	46	46·3	+0·3
SCOTLAND, E. ..	Cromarty	48	43	45·0	+2·0		Newquay	49	48	48·9	-0·5
	Pennan Bay	48	45	46·5	+2·7	ENGLAND, S.W. ..	Scilly	54	50	51·0	+2·0
	Aberdeen, Cove Bay	44	43	43·4	-0·7		Plymouth‡	51	49	50·1	+1·1
ENGLAND, N.E. ..	Burnmouth, Berwick	43	42	42·5	-0·2		Salcombe	52	48	49·6	+1·4
	Scarborough	48	45	46·8	+2·4	IRELAND, N.W. ..	Sheephaven	50	46	48·1	+0·2
ENGLAND, E. ..	Shipwash Lightship	50	46	48·0	+2·4		Teelin	50	46	47·2	-1·7
	Margate‡	—	—	—	—	IRELAND, S.W. ..	Cleggan	49	47	47·9	-0·5
ENGLAND, S.E. ..	Eastbourne‡	50	47	48·7	+1·1	IRELAND, E.	Seafield	53	50	51·8	+1·9
							.. .. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905 An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

SEVENTEENTH WEEK—April 20th to April 26th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Accumulated Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr	Hr.	%	%
0. SCOTLAND, NORTH ...	62	32	52·0	40·6	46·0	+ 1·3	34	+ 1	4	− 8	4	0	0·45	−0·20	4·2	−0·5	28	− 4
Eastern.																		
1. SCOTLAND, EAST ...	66	25	55·3	37·6	46·0	+ 0·9	46	+ 8	12	− 1	4	0	0·38	−0·08	5·6	+0·6	38	+ 4
2. ENGLAND, N.E.	66	33	55·7	40·7	47·8	+ 1·9	46	+ 9	4	− 4	4	0	0·33	−0·04	5·5	+0·2	38	+ 2
3. ENGLAND, EAST ...	66	32	57·3	41·1	48·8	+ 1·6	51	+ 3	3	− 5	3	− 1	0·22	−0·17	6·6	+1·0	46	+ 7
4. MIDLAND COUNTIES ...	68	29	58·7	40·4	49·1	+ 1·8	56	+ 7	4	− 7	5	+ 1	0·58	+0·14	4·9	−0·2	34	− 1
5. ENGLAND, S.E.	67	32	57·9	42·3	49·7	+ 1·3	54	+ 4	0	− 4	5	+ 1	0·68	+0·22	6·2	+0·5	43	+ 4
Western.																		
6. SCOTLAND, WEST ...	62	36	54·5	41·6	47·7	+ 1·1	42	+ 1	1	− 6	4	0	0·87	+0·20	4·3	−0·9	30	− 6
7. ENGLAND, N.W.	65	34	56·8	42·3	49·2	+ 2·1	50	+ 8	0	− 5	4	0	0·93	+0·43	4·1	−1·1	28	− 8
8. ENGLAND, S.W.	68	34	56·0	42·7	49·1	+ 1·0	50	+ 3	0	− 3	6	+ 2	1·60	+0·98	3·7	−2·0	26	−14
9. IRELAND, NORTH ...	61	31	53·1	39·9	46·2	− 0·8	38	− 4	6	+ 1	5	+ 1	1·13	+0·55	2·8	−2·1	19	−15
10. IRELAND, SOUTH ...	65	30	54·7	40·4	47·2	− 1·2	43	− 6	4	+ 1	6	+ 2	1·92	+1·25	3·2	−2·2	22	−15
11. ENGLISH CHANNEL ...	65	40	56·3	44·9	50·3	+ 0·4	58	+ 3	0	0	5	+ 1	1·01	+0·49	5·5	−1·2	39	− 8

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 8 Weeks, March 2nd to April 26th, 1913.

0. SCOTLAND, NORTH ...	62	21	*	*	*	*	120	− 31	191	− 6	38	+ 1	8·60	+ 1·81	3·5	−0·4	27	− 3
Eastern.																		
1. SCOTLAND, EAST ...	66	16	*	*	*	*	141	− 54	234	+ 22	37	+ 6	5·21	+ 1·37	4·3	+0·3	34	+ 1
2. ENGLAND, N.E.	66	20	*	*	*	*	193	− 6	145	− 16	35	+ 6	3·97	+ 0·92	4·0	−0·6	31	− 5
3 ENGLAND, EAST ...	66	24	*	*	*	*	256	− 4	94	− 74	34	+ 7	3·63	+ 0·79	3·9	−0·8	31	− 6
4. MIDLAND COUNTIES ...	68	22	*	*	*	*	251	− 18	130	− 46	36	+10	5·63	+ 2·43	3·6	−0·6	28	− 5
5. ENGLAND, S.E.	67	23	*	*	*	*	265	− 10	59	− 58	37	+12	4·82	+ 1·70	4·1	−0·5	32	− 5
Western.																		
6. SCOTLAND, WEST ...	63	21	*	*	*	*	201	− 1	129	− 21	38	+ 7	7·32	+ 1·58	3·9	−0·5	31	− 4
7. ENGLAND, N.W.	65	21	*	*	*	*	213	− 2	104	− 24	38	+ 9	6·88	+ 2·78	3·9	−0·3	31	− 2
8. ENGLAND, S.W.	68	20	*	*	*	*	246	− 20	69	− 28	38	+ 9	8·12	+ 3·51	3·8	−1·0	30	− 8
9. IRELAND, NORTH ...	61	25	*	*	*	*	216	− 15	126	+ 5	41	+ 7	6·61	+ 1·95	4·2	+0·1	33	0
10. IRELAND, SOUTH ...	65	23	*	*	*	*	263	− 22	92	+ 2	42	+11	7·44	+ 2·32	4·3	−0·3	34	− 3
11. ENGLISH CHANNEL ...	65	31	*	*	*	*	319	+ 6	2	− 28	34	+ 3	5·29	+ 1·47	4·4	−1·2	35	−10

THE YEAR.—Aggregates, &c., for the Period of 17 Weeks, December 29th, 1912, to April 26th, 1913.

0. SCOTLAND, NORTH ...	62	21	*	*	*	*	188	− 23	417	−110	81	− 2	17·88	+0·13	2·1	−0·5	21	− 4
Eastern.																		
1. SCOTLAND, EAST ...	66	11	*	*	*	*	195	− 68	576	− 13	74	+ 8	10·07	+1·24	2·6	−0·4	25	− 4
2. ENGLAND, N.E.	66	18	*	*	*	*	274	− 5	403	− 59	70	+ 8	7·85	+1·41	2·6	−0·6	25	− 6
3. ENGLAND, EAST ...	66	20	*	*	*	*	363	+ 13	303	−204	67	+ 6	7·18	+0·97	2·9	−0·5	27	− 5
4. MIDLAND COUNTIES ...	68	13	*	*	*	*	362	− 11	392	−120	70	+11	10·42	+3·04	2·4	−0·6	23	− 6
5. ENGLAND, S.E.	67	22	*	*	*	*	404	+ 11	221	−155	67	+10	9·78	+2·21	3·0	−0·3	28	− 3
Western.																		
6. SCOTLAND, WEST ...	63	17	*	*	*	*	301	+ 10	322	− 90	76	+ 5	16·26	+1·67	2·4	−0·6	23	− 5
7. ENGLAND, N.W.	65	10	*	*	*	*	320	+ 11	297	− 82	73	+ 8	12·76	+2·99	2·6	−0·3	25	− 3
8. ENGLAND, S.W.	68	19	*	*	*	*	409	− 8	221	− 75	79	+14	16·63	+5·02	2·8	−0·6	26	− 5
9. IRELAND, NORTH ...	61	21	*	*	*	*	367	+ 11	287	− 51	83	+ 7	13·89	+2·70	2·7	−0·2	25	− 2
10. IRELAND, SOUTH ...	65	22	*	*	*	*	462	− 9	237	− 18	86	+17	17·23	+4·56	2·8	−0·5	27	− 5
11. ENGLISH CHANNEL ...	65	31	*	*	*	*	584	+ 52	38	− 71	74	+ 2	12·01	+2·28	3·3	−0·8	31	− 7

M.O., April 30, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (*New Series.*) } No. 18. EIGHTEENTH WEEK, SUNDAY, APRIL 27TH, TO SATURDAY, MAY 3RD, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was generally unsettled, but late in the week several localities over the eastern half of the Kingdom had very little rain. Thunderstorms were experienced in most parts of the country; they were more general over the eastern half of England than elsewhere, and in a few places they were severe.

Temperature exceeded the normal in the Eastern Section of the Kingdom, the excess amounting to 4° in England S.E. Over the Western Section, however, it was nearly everywhere below the average—as much as 2° in Ireland S. The highest of the maxima occurred at most stations about the middle of the week, and ranged from 70° in England S.E. and 69° in England E. to 57° in Ireland N. The lowest of the minima, which were recorded early in the week in Ireland and towards its close in most parts of Britain, ranged from 29° in Scotland E. to 35° in England E., and to 43° in the English Channel. The lowest grass readings were 23° at Birmingham, 25° at West Linton, and 26° at Crathes and Stonyhurst. With few exceptions the temperature of the earth was above the normal, both at a depth of 1 foot and 4 feet, in Great Britain, but rather below it at the Irish stations.

Mean Temperature of the Sea was above the average on most parts of the coast, the mean values ranging from about 51°·5 at Seafield and Scilly to 44° at Aberdeen and Burnmouth. As a rule the readings were lower than during the corresponding week of last year.

Rainfall exceeded the average in all districts, the excess being large except in Scotland N. At Oxford and Dumfries the measurements on April 29th were respectively 1·4 in. and 1·0 in. Hail was reported in several Irish localities.

Bright Sunshine was more than the normal in Scotland N. and E., less elsewhere. The dullest district was England S.W., where the daily mean was only 2·8 hours, and the percentage of the possible duration 19, and the brightest, Scotland N., where the daily mean was more than twice as much, and the percentage of the possible 38.

Barometer and Wind. Cyclonic conditions prevailed very generally, although few depressions advanced directly over these Islands. The main wind current was Southerly, and its force light to fresh or strong, but on Wednesday it shifted temporarily to the Eastward in Scotland, and on Friday veered to the Eastward over England. On Saturday, when a depression (at first "V"-shaped) travelled from west to east across the Kingdom, a strong breeze from the North-West set in over Ireland.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 71.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Moderate	Moderate	Deficient	Moderate	Moderate	Moderate	Deficient	Moderate
	Rainfall ...	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Very heavy	Heavy
	Sunshine ...	Abundant	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Moderate	Moderate	Very deficient

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 9 weeks from March 2nd, 1913.	Warmth ...	1 * 3	1 * 3	4 * 2	4 * 1	3 * 1	3 * 1	2 * 2	3 * 2	1 * 0	1 * 2	1 * 2	2 * 2
	Rainfall ...	5 * 3	4 * 1	4 * 2	4 * 0	6 * 0	5 * 0	6 * 2	6 * 1	5 * 1	6 * 1	5 * 1	5 * 1
	Sunshine ...	3 * 2	2 * 1	1 * 3	0 * 5	1 * 4	0 * 3	1 * 5	1 * 2	0 * 5	2 * 2	1 * 3	0 * 7

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(29915—24.) Wt. 196—786. 450. 5/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.					Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*54*	*29, 1, 2*	*39*	*3rd*	*53·0*	*43·1*	*47·3*	—	*37*	*0*	•	•	46·7	•	•	•	*5*	*0·88*	—	*4·4*	—	*28*	—	*Baltasound.*
a, Islands .. *a* Lerwick	54	2nd	39	27th	50·7	43·0	46·7	+ 3·6	33	0	•	•	•	•	•	•	4	0·91	—	7·1	+ 1·7	45	+11	Deerness.
a Stornoway	56	29th	37	2nd	53·0	41·9	47·2	+ 2·4	37	0	•	•	•	•	•	•	6	0·65	+ 0·03	6·3	+ 0·6	41	+ 4	Stornoway.
a Castlebay, Barra Isd.	*57*	*28th*	*38*	*27th*	*49·3*	*42·3*	*45·6*	—	*25*	*0*	•	•	•	•	•	•	*4*	*0·87*	—	*6·5*	—	*43*	—	*Castlebay.*
a Wick	52	30th	36	2nd	48·7	41·4	44·9	- 0.1	23	2	•	•	•	•	•	•	4	0·72	+ 0·27	•	•	•	•	
b, Main- *p* Strathpeffer ..	61	29th	35	1st	57·3	39·0	47·7	+ 1·9	53	8	•	•	•	•	•	•	4	0·82	+ 0·38	6·0	+ 0·8	39	+ 6	Strathpeffer.
land. *p* Glencarron ..	58	29, 30	34	2nd	53·4	37 8	45·2	+ 0·6	40	12	•	•	•	•	•	•	4	0·80	- 0·42	•	•	•	•	
p Fort Augustus..	60	30th	32	2nd	55 7	39·7	47·3	+ 1·7	47	6	•	•	•	•	•	•	3	0·79	+ 0·26	4·0	- 0·1	26	- 1	Fort Augustus.
p Fort William ..	60	29th	34	2nd	53·3	40·0	46·3	- 0·4	39	6	•	•	•	•	•	•	7	1·04	+ 0·16	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	62	29, 30	35	2nd	59·0	39·6	48·8	+ 2·7	58	7	3	26	46·5	+1·2	43·6	0·0	—	—	—	4·9	—	32	—	Crathes S
a Nairn	64	29th	31	2nd	58·4	37·1	47·2	+ 1·2	57	14	•	•	•	•	•	•	2	0·14	- 0·24	*7·2*	—	*47*	—	*Gordon Castle.*
a Aberdeen ..	56	30-3	39	1st	53·9	41·0	47·1	+ 1·4	40	3	•	•	•	•	43·4	0·0	4	0·44	+ 0·07	6·1	—	40	—	Nairn.
a Balmoral ..	58	2nd	32	1st	52·3	35·3	43·4	+ 0·6	38	19	3	27	•	•	•	•	3	1·45	+ 0·98	5·8	+ 0·1	38	+ 1	Aberdeen.
p Crieff	58	2nd	35	2nd	54·4	40·9	47·3	+ 0·4	42	3	•	•	•	•	•	•	4	0·80	+ 0·28	•	•	•	•	Balmoral.
a Leith	59	28, 30, 2	38	2, 3	57·0	41·1	48 7	+ 1·7	51	3	•	•	•	•	•	•	5	1·43	+ 0·91	•	•	•	•	Balrudd'ery.
p West Linton .. S	57	30th	29	2nd	53·1	37·4	44·9	+ 1·0	40	13	3	25	•	•	•	•	4	0·66	+ 0·32	•	•	•	•	
p Marchmont .. S	59	30th	35	27, 28	55·6	39·0	46·9	+ 2·1	47	8	1	30	47·4	+2·4	•	•	5	1·31	—	*4·0*	—	*27*	—	*West Linton.*
2. ENGLAND, N.E.																	4	1·40	+ 0·87	5·1	- 0·1	34	- 1	Marchmont.
a Alnwick Castle ..	61	30th	34	3rd	56·9	39·6	47·8	+ 2·1	51	7	0	34	45·7	+0·8	44·5	+0·5	3	1·40	+ 0·95	4·2	—	28	—	Cockle Park.
a Shields	60	30th	38	27, 2	57·1	40·9	48·6	+ 2·5	51	3	•	•	•	•	•	•	4	1·16	+ 0·30	•	•	•	•	
a Durham	59	2nd	34	3rd	56·4	39·7	47·7	+ 1·9	50	6	0	31	•	•	•	•	5	2·10	+ 1·72	3·0	- 2·0	20	-13	Durham.
a, North .. *p* Rounton	61	29, 2	38	2, 3	58·7	41·7	49·8	+ 3·6	56	1	1	30	49·1	•	•	•	5	1·71	+ 1·37	•	•	•	•	Rounton.
a West Witton	*60*	*2nd*	*34*	*3rd*	*55·9*	*39·4*	*47·3*	—	*48*	*7*	1	29	47·4	•	43·2	•	*4*	*1·67*	—	•	•	•	•	*West Witton.*
p Scarborough	62	30th	43	3rd	56·9	45·3	50·8	+ 4·2	62	0	•	•	•	•	45·1†	•	4	0·57	+ 0·17	5·0	—	33	—	Scarborough.
p York	62	29, 2	39	27th	59·4	43·3	51·0	+ 2·6	63	0	•	•	49·0	+1·7	45·7	+0·2	4	1·46	+ 1·04	3·3	- 1·8	22	-12	York.
a Spurn Head	59	30th	41	27th	55 0	44·0	49·2	+ 1·8	50	0	0	35	49·0	+2·2	45·4	+0·6	—	—	—	2·7	—	18	—	*Hull.*
b, South .. *a* Lincoln	64	29th	39	3rd	60·3	44·7	52·1	+ 3·5	71	0	•	•	•	•	•	•	3	0·84	+ 0·55	*5·0*	•	*33*	—	*Spurn Head.*
a Fulbeck	62	29th	38	2nd	59·1	43·6	51·0	+ 2·7	63	0	•	•	49·6	+2·4	45·4	-0·1	4	0·87	+ 0·49	•	•	•	•	Lincoln.
											1	30	51·0	+0·9	46·2	-0·6	6	1·16	+ 0·76	5·2	—	35	—	Rauceby.
3. ENGLAND, E.											•	•	•	•	•	•	—	—	—	4·8	—	32	—	Skegness.
p Cromer	66	27th	42	3rd	60·7	46·1	53·1	+ 6·4	78	0	0	35	52·6	+3·2	48·3	+1·1	—	—	—	*6·9*	—	*47*	—	*Lowestoft.*
p Little Massingham ..	67	29th	41	2, 3	59·9	45·4	52·3	+ 4·1	72	0	•	•	•	•	•	•	5	0·59	—	5·7	—	38	•	Cromer.
a, North .. *a* Yarmouth	67	30th	42	27th	57·7	45·9	51·5	+ 4·3	67	0	0	35	•	•	•	•	5	1·15	+ 0·75	5·2	- 0·7	35	- 5	Lit. Massingham.
a Norwich	67	27th	38	3rd	61·5	45·6	53·2	+ 5·5	78	0	•	•	52·7	+1·6	49·3	0·0	4	0·96	+ 0·60	6·6	—	45	—	Yarmouth.
p Geldeston	69	28th	36	3rd	61·9	45·7	53·4	+ 5·4	80	0	1	30	51·3	•	•	•	4	0·75	—	*5·3*	—	*36*	—	*Norwich.*
											•	•	•	•	•	•	4	0·90	+ 0·52	6·1	- 0 2	42	- 1	Geldeston.
p Cambridge	67	29th	38	2 3	60·6	44·4	52·1	+ 3·0	71	0	0	35	•	•	•	•	—	—	—	*6·9*	—	*47*	—	*Lowestoft.*
a Felixstowe	*61*	*30th*	*44*	*2nd*	*58·1*	*47·7*	*52·7*	+ *4·5*	*75*	*0*	1	30	51·5	+1·9	48·4	+0·4	5	1·17	+ 0·80	4·3	- 1·7	29	-12	Cambridge.
b, South .. *a* Clacton-on-Sea ..	61	29th	43	2nd	57·4	47·4	52·2	+ 4·3	71	0	•	•	•	•	•	•	*3*	*0·47*	—	*7·0*	—	*48*	—	*Felixstowe.*
a Rothamsted	64	29th	35	2nd	59·0	42·7	50·5	+ 2·3	60	0	0	35	•	•	•	•	5	1·15	+ 0·75	5·2	- 0·7	35	- 5	Lit. Massingham.
a Shoeburyness	*65*	*27th*	*40*	*30th*	*59·1*	*45·6*	*52·0*	+ *2·0*	*70*	*0*	•	•	•	•	•	•	4	0·96	+ 0·60	6·6	—	45	—	Yarmouth.
p Tottenham	66	29th	42	2, 3	59·6	46·9	53·0	+ 3·6	77	0	0	32	52·7	+2·5	•	•	*5*	*0·74*	+ *0·48*	*4·9*	—	*33*	—	*Norwich.*
											0	37	•	•	48·6	+0·8	5	1·04	—	3·0	—	20	—	Geldeston.
4. MIDLAND COUNTIES.																								
a Harrogate	58	29, 2	37	3rd	55·3	40·6	47·6	+ 1·2	45	4	1	30	48·6	+1·9	43·9	+0·4	—	—	—	2·3	—	*15*	—	*Huddersfield.*
a Bawtry	65	29th	?	?	59·7	?	?	?	?	4	0	31	45·7	+0·5	45·1	+0·4	4	1·66	+ 1·19	2·6	—	17	—	Harrogate.
p Buxton	*57*	*29th*	*35*	*3rd*	*53·3*	*40·6*	*46·7*	+ *2·1*	*39*	*4*	1	30	49·9	•	47·2	•	4	1·30	+ 0·94	3·0	- 1·9	20	-13	Worksop.
a, East .. *a* Nottingham	62	29th	37	3rd	59·1	42·7	50·5	+ 2·2	60	0	0	32	50·7	+3·0	46·1	+0·9	0	32	47·1	+0·6	44·1	-0·1	*5*	*2·70*	+ *2·03*	*2·7*	—	*18*	—	*Buxton.*
p Birmingham, Edgbsn.	60	29th	39	3rd	55·1	42·9	48·7	+ 0·5	47	0	0	3	23	46·6	+0·5	45·3	+0·5	5	1·55	+ 1·17	3·0	—	20	—	Nottingham.
a Raunds	67	29th	36	3rd	60·7	43·4	51·6	+ 3·3	67	0	0	31	49·2	•	46·4	•	5	2·02	+ 1·57	1·8	—	12	—	Birmingham
p Oxford	65	29th	40	*2nd*	58·6	44·7	51·3	+ 1·8	65	0	0	35	•	•	•	•	4	1·42	—	•	•	•	•	Raunds.
											0	31	48·1	+1·5	44·5	+0·3	5	2·53	+ 2·16	3·5	- 2·2	24	-15	Oxford.
a Cheadle	58	29th	33	2nd	54·6	40·3	47·1	+ 0·1	43	5	0	33	•	•	•	•	—	—	—	3·4	—	23	—	Sheffield.
p Shrewsbury	61	2nd	37	1st	56·0	41·1	48·2	- 0·8	47	3	0	34	•	•	•	•	5	2·23	+ 1·77	•	•	•	•	Cheadle.
b, West .. *a* Hereford	60	2nd	33	2nd	55·0	40·7	47·5	- 1·7	44	4	1	28	•	•	•	•	5	1·52	—	•	•	•	•	Shrewsbury.
a Cirencester	60	29th	34	1st	56·1	40·1	47·7	0·0	48	5	0	33	48·5	•	46·8	•	5	2·07	+ 1·63	•	•	•	•	Hereford.
a Bath	61	29th	37	1-3	57·3	42·4	49·5	0·0	53	0	•	•	50·8	+0·3	49·3	+0·7	5	1·56	+ 1·12	3·0	- 3·0	20	-20	Cirencester.
5. ENGLAND, S.E.																	5	1·76	+ 1·32	3·6	—	25	—	Bath.
p Kew	65	29th	41	2, 3	59·4	45·4	52·1	+ 2·7	71	0	0	36	53·9	+5·1	49·3	+0·5	—	—	—	•	•	•	•	Canterbury
a Marlborough	63	29th	32	3rd	56·4	41·0	48·3	+ 0·7	48	3	2	30	51·4	+2·2	48·2	+0·6	5	1·12	+ 0·77	3·8	- 2·0	26	-13	Kew.
a Margate	70	27th	42	3rd	61·0	46·9	53·6	+ 4·6	81	0	1	29	•	•	48·3	•	5	1·81	+ 1·38	1·3	- 4·1	9	-28	Marlborough.
a Wisley, Surrey ..	69	29th	38	3rd	59·7	44·7	51·8	+ 2·1	69	0	0	35	51·0	+2·4	48·4	+1·4	1	0·30	- 0·02	5·2	- 0·6	35	- 4	Margate.
											1	28	51·8	+2·7	48·3	+0·7	4	0·91	—	4·0	—	27	—	Wisley
p Salisbury	57	28, 29, 2	35	3rd	55·7	41·4	48·2	- 1·4	46	2	0	34	52·7	+2·0	49·6	+1·3	—	—	—	3·8	—	26	—	Worthing.
a Tunbridge Wells ..											0	33	52·1	•	•	•	6	1·63	+ 1·13	•	•	•	•	Salisbury.
a Dungeness	59	27, 28	41	2nd	56·1	46·9	51·3	+ 2·8	65	0	•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
p Hastings..	63	29th	43	2nd	57·6	46·4	51·7	+ 2·5	68	0	•	•	•	•	•	•	3	0·43	+ 0·14	5·8	—	40	—	Littlestone.
p Southampton	65	29th	39	2nd	58·7	44·7	51·4	+ 0·7	66	0	0	36	53·2	•	49·2	•	4	0·79	+ 0·43	*5·0*	- *1·7*	*34*	- *12*	*Hastings.*
a Ventnor	57	29, 1	43	2nd	55·4	46·4	50·7	+ 0·3	61	0	0	32	•	•	•	•	7	1·39	+ 0·95	3·2	- 3·1	22	-22	Southampton
											•	•	•	•	•	•	4	0·73	+ 0·36	3·9	- 2·9	27	-20	Ventnor.
											0	33	52·4	+0·9	51·1	+1·4	—	—	—	*4·1*	—	*28*	—	*Portsmouth.*
											•	•	52·5	•	50·0	•	—	—	—	5·1	- 1·5	35	-11	Eastbourne
											•	•	50·5	•	49·5	•	—	—	—	*3·5*	—	*24*	—	*Bournemouth.*
LONDON.											0	38	•	•	49·7	•	—	—	—	*5·1*	- *1·4*	*35*	- *10*	*Brighton.*
a Westminster	*65*	*29th*	*40*	*3rd*	*60·4*	*46·6*	*53·2*	+ *3·0*	*78*	*0*	0	35	•	•	•	•	*5*	*0·95*	+ *0·60*	*4·2*	- *0·5*	*29*	- *3*	*Westminster.*
a Greenwich	*65*	*29th*	*40*	*2, 3*	*61·9*	*45·6*	*53·4*	+ *3·6*	*80*	*0*	0	29	•	•	•	•	*6*	*0·83*	+ *0·51*	*4·2*	- *1·3*	*29*	- *9*	*Greenwich.*
a Hampstead	*63*	*29th*	*38*	*2nd*	*58·3*	*44·9*	*51·3*	—	*65*	*0*	0	31	•	•	•	•	*5*	*1·05*	—	*3·4*	—	*23*	—	*Hampstead,*
a Camden Square ..	*69*	*29th*	*40*	*2nd*	*63·0*	*45·9*	*54·0*	—	*84*	*0*	0	37	•	•	•	•	*5*	*1·04*	—	*3·1*	—	*21*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	55	29, 1	36	27th	52·6	41·3	46·7	- 0·7	36	2	•	•	•	•	•	•	6	1·15	+ 0·55	•	•	•	•	
p Glasgow .. .. S	56	29, 2	39	2nd	54·1	42·3	47·9	+ 0·4	41	0	1	27	•	•	•	•	5	1·15	+ 0·63	2·9	- 1·9	19	-13	Glasgow.
p Rothesay .. S	59	29, 2	38	27th	54·9	42·1	48·2	+ 0·5	43	0	•	•	•	•	46·2	+0·9	6	1·34	+ 0·69	•	•	•	•	
a Kilmarnock ..	56	29, 2	35	2nd	54·1	41·3	47·4	+ 0·2	41	2	•	•	•	•	•	•	5	0·72	—	*3·7*	—	*25*	—	*Kilmarnock.*
a Colmonell	58	2nd	39	27, 2	53·9	41·7	47·5	0·0	40	1	0	34	•	•	•	•	6	1·12	+ 0·56	•	•	•	•	
p Dumfries	56	2nd	37	2nd	52·9	41·9	47·1	- 0·6	36	0	0	33	48·2	•	46·2	•	5	1·90	+ 1·36	*3·6*	—	*24*	—	*Dumfries.*
p Cally, Gatehouse	55	2nd	33	2nd	51·0	41·4	46·0	- 1·2	31	2	•	•	•	•	•	•	5	1·37	+ 0·68	•	•	•	•	
b I. OF MAN.																								
p Douglas	53	2nd	37	2nd	50·9	42·6	46·6	- 0·4	32	0	0	35	•	•	•	•	5	1·11	+ 0·53	4·5	- 2·2	30	-14	Douglas.
											2	27	46·7	+0·8	44·4	+0·3	—	—	—	*2·1*	—	*14*	—	*Burnley.*
											0	34	•	•	46·0	•	—	—	—	3·5	—	24	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	59	29th	37	2nd	54·6	40·3	47·1	+ 0·6	43	5	2	30	48·1	•	46·0	•	4	1·25	+ 0·72	4·0	—	27	—	Aspatria.
p Newton Rigg	57	1st	32	2nd	54·7	38·9	46·4	+ 0·6	44	9	1	30	46·8	+0·3	44·7	+0·4	4	1·72	+ 1·20	3·9	- 1·8	26	-12	Newton Rigg.
p Stonyhurst	56	2, 3	38	2nd	54·9	41·4	47·8	+ 0·9	43	2	2	26	•	•	•	•	4	2·14	+ 1·51	2·4	- 3·1	16	-21	Stouyhurst.
p Blackpool	56	28th	36	2nd	53·7	40·9	47·0	- 0·7	40	3	2	27	47·7	•	46·1	•	5	1·58	+ 1·12	4·0	- 1·9	27	-12	Blackpool.
p Manchester (Whit. Pk.)	59	29th	40	3rd	56·1	43·7	49·6	- 0·2	53	0	0	•	•	•	•	•	4	1·82	+ 1·40	*1·8*	- *2·6*	*12*	- *17*	*Whit. Park.*
a Liverpool (Bidston) ..	56	30th	40	27th	54·4	42·1	48·0	- 0·2	42	0	•	•	•	•	•	•	6	1·58	+ 1·18	*3·7*	—	*25*	—	*Liverpool.*
a Hawarden Bridge ..	57	27, 30	40	1, 3	55·3	43·3	49·0	- 0·4	49	0	1	27	49·5	-0·7	47·9	-0·2	6	1·44	+ 1·08	*3·5*	- *2·7*	*23*	- *18*	*Southport.*
											0	39	47·9	+1·4	46·4	+0·4	—	—	—	*1·5*	—	*10*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	59	28th	40	27, 2	55·9	42·7	49·0	+ 0·3	49	0	•	•	•	•	•	•	5	1·07	+ 0·66	3·9	- 2·0	26	-14	Llandudno.
a Holyhead	55	2nd	42	27th	52·4	44·3	48·2	+ 0·1	43	0	•	•	•	•	•	•	6	1·35	+ 0·88	4·2	—	*28*	—	*Holyhead.*
p Bettws-y-Coed ..	58	3rd	36	2, 3	55·6	41·4	48·2	- 0·1	46	2	0	34	47·3	+0·2	46·6	+0·7	5	2·17	—	2·6	—	17	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	3·2	—	22	—	Aberdovey.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.					STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				2·9	—	20	—	Aberystwyth.
a Llangammarch Wells	58	2nd	37	2nd	53·4	41·4	47·1	+ 0·1	38	2	0	31	47·1	−0·5	46·1	+0·2	7	1·89	—	2·5	—	17	—	Llangammarch
a Pembroke	53	29, 3	42	27th	51·4	44·6	47·8	− 0·4	41	0	•	•	•	•	•	•	5	1·16	+ 0·73	4·7	− 1·8	32	−12	Pembroke.[Wells
p Cardiff	57	2nd	38	2nd	53·4	42·0	47·4	− 2·8	38	0	0	31	49·5	+0·3	48·0	+1·2	5	1·54	+ 0·99	*3·4*	—	*23*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	58	2nd	40	2nd	54·7	43·6	48·9	− 1·0	48	0	0	34	•	•	•	•	6	1·70	+ 1·19	*3·7*	—	*25*	—	*Clifton.*
a Shaftesbury									•	•	•	•	•	•	•	•	—	—	—	•	•	•	•	Shaftesbury.
a Arlington	54	29, 2	37	2nd	52·1	41·4	46·5	− 1·0	34	2	•	•	•	•	•	•	5	1·79	+ 1·14	•	•	•	•	Arlington.
a Newquay	*55*	*30th*	*41*	*1st*	*52·9*	*44·4*	*48·5*	*− 1·0*	*46*	*0*	•	•	*49·9*	•	•	•	*7*	*1·08*	*+ 0·68*	3·1	− 3·3	21	−23	Newquay.
a Cullompton	58	28th	34	2nd	55·1	41·4	47·9	− 1·4	44	2	0	32	49·7	•	•	•	6	1·61	+ 1·10	1·1	− 4·7	8	−32	Cullompton.
a Portland	53	27, 28, 2	45	2nd	51·7	47·4	49·4	+ 0·1	52	0	•	•	•	•	•	•	4	0·70	—	*4·1*	—	*28*	—	*Weymouth.*
p Plymouth	55	29th	37	2nd	53·3	45·4	49·2	− 1·1	50	0	0	33	50·4	−1·0	•	•	7	1·51	+ 1·01	2·0	− 4·4	14	−30	Plymouth.
p Falmouth	55	30th	43	2nd	53·0	45·6	49·1	− 0·6	50	0	•	•	•	•	•	•	7	1·43	+ 0·89	3·5	− 3·4	24	−24	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	55	28th	32	27th	52·4	41·3	46·6	− 0·4	35	2	•	•	•	•	•	•	5	0·67	+ 0·21	•	•	•	•	• •
a Blacksod Point	53	29, 30	37	28th	51·3	41·0	45·9	− 2·6	32	3	•	•	•	•	•	•	6	1·23	+ 0·59	•	•	•	•	• •
p Markree Castle ..	57	29th	34	27th	54·4	38·6	46·1	− 1·2	43	10	1	29	48·3	•	46·8	•	7	1·54	+ 0·94	6·1	+ 0·6	41	+ 4	Markree Castle.
a Birr Castle	57	1st	35	27th	54·3	40·1	46·9	− 1·2	42	5	•	•	•	•	•	•	7	1·91	+ 1·40	*5·1*	*− 0·5*	*34*	*− 3*	*Birr Castle.*
b, East .. { *p* Armagh	57	30, 1	36	27th	54·6	40·4	47·2	− 0·3	43	4	0	33	47·4	−1·8	46·4	−0·8	6	1·46	+ 0·94	4·2	− 1·2	28	− 8	Armagh.
a Donaghadee	57	30th	37	27th	52·7	40·1	46·1	− 1·2	37	5	•	•	•	•	•	•	6	1·60	+ 1·11	•	•	•	•	• •
10. IRELAND, S.											1	30	48·9	−0·5	47·9	−0·1	—	—	—	•	•	•	•	Trinity Coll.
											3	28	•	•	•	•	—	—	—	4·3	− 1·8	29	−13	Phœnix Park.
a, East .. { *p* Dublin, City	58	30th	40	27th	55·4	42·4	48·6	− 1·2	46	0	0	37	•	•	•	•	7	1·42	+ 0·99	•	•	•	•	Dublin City.
a Kilkenny	57	1st	36	2nd	53·9	40·7	47·0	− 1·4	40	4	•	•	•	•	•	•	7	1·72	+ 1·22	•	•	•	•	• •
a Waterford	55	28, 1	40	27, 2	53·7	42·6	47·9	− 0·8	41	0	•	•	•	•	•	•	4	1·53	+ 1·00	•	•	•	•	• •
b, West .. { *a* Birr Castle	57	1st	35	27th	54·3	40·1	46·9	− 1·2	42	5	•	•	•	•	•	•	7	1·91	+ 1·40	5·1	− 0·5	34	− 3	Birr Castle.
a Foynes	56	29th	36	27th	52·9	41·0	46·7	− 2·6	37	3	•	•	•	•	•	•	7	1·50	+ 0·97	•	•	•	•	• •
a Cahir	58	1st	33	27th	54·9	39·7	46·9	− 1·5	44	6	•	•	•	•	•	•	7	1·57	—	•	•	•	•	• •
a Killarney	59	29th	37	27th	55·6	41·1	48·0	− 0·9	46	3	•	•	•	•	•	•	7	1·64	+ 0·92	•	•	•	•	• •
a Valencia	55	29th	37	27th	52·3	41·6	46·7	− 3·0	35	1	•	•	•	•	•	•	7	2·40	+ 1·62	6·0	0·0	41	0	Valencia.
a Roche's Point ..	53	30, 3	41	27, 1, 2	51·7	42·4	46·8	− 3·0	34	0	•	•	•	•	•	•	7	1·01	+ 0·40	•	—	—	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	55	30, 1	43	27, 30	53·4	44·9	49·0	− 1·0	49	0	•	•	•	•	•	•	6	1·64	+ 0·84	5·2	− 1·6	36	−11	Scilly.
a Jersey, St. Aubins ..	61	28th	44	1, 2	56·3	46·7	51·3	+ 0·5	65	0	•	•	•	•	•	•	4	0·56	+ 0·08	3·9	− 3·2	27	−22	St. Heliers.
a Guernsey (Villa Carey)	59	28th	44	2nd	55·3	46·9	50·9	+ 0·3	62	0	0	40	51·6	+0·3	50·3	+0·9	7	0·83	+ 0·33	3·8	− 3·8	26	−26	Guernsey.*

Additional Sunshine Means:—*Bognor, 4·5 hrs. 31 °/₀; Ramsgate, 6·4 hrs. 44 °/₀; Rhyl, 3·8 hrs. 26 °/₀; Salcombe, 2·6 hrs. 18 °/₀; Tenby, 3·8 hrs. (−2·8) 26 °/₀ (−19 °/₀); Torquay, 2·0 hrs. (−4·6) 14 °/₀ (−32 °/₀).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, May 3rd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick..	46	45	45·6	+1·0	SCOTLAND, W. ..	{ Lamlash	50	43	45·6	−0·1
	{ Kirkwall	48	45	45·8	+0·5		{ Ballantrae	47	45	46·0	−0·2
	{ Wick	?46	?45	?45·4	−0·1	ENGLAND, N.W. ..	Port Erin	49	46	46·9	+0·3
SCOTLAND, E. ..	{ Cromarty	48	44	46·2	+2·0	ENGLAND, S.W. ..	{ Newquay	50	49	49·8	−0·4
	{ Pennan Bay	49	41	45·2	+0·5		{ Scilly	53	51	51·6	—
	{ Aberdeen, Cove Bay	?44	?44	?44·0	−0·8		{ Plymouth‡	52	50	50·9	+1·7
ENGLAND, N.E. ..	{ Burnmouth, Berwick	45	43	44·2	+0·4		{ Salcombe	51	48	49·7	+0·7
	{ Scarborough	49	46	47·7	+2·7	IRELAND, N.W. ..	{ Sheephaven	49	46	47·7	−0·9
ENGLAND, E. ..	{ Shipwash Lightship	52	49	50·7	+4·0		{ Teelin	50	45	48·4	−1·9
	{ Margate‡	—	—	—	—	IRELAND, S.W. ..	{ Cleggan	49	44	47·9	−1·3
ENGLAND, S.E. ..	Eastbourne‡	51	49	50·1	+1·3		{ Seafield	53	50	51·7	+1·0
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

EIGHTEENTH WEEK—April 27th to May 3rd, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr	Hr.	%	%
0. SCOTLAND, NORTH ...	61	32	53·2	40·4	46·5	+ 0·8	38	+ 1	4	− 5	5	0	0·82	+0·14	5·9	+0·9	38	+ 6
Eastern.																		
1. SCOTLAND, EAST ...	64	29	55·5	38·9	46·8	+ 0·7	47	+ 4	9	− 1	4	0	0·95	+0·48	5·5	+0·2	36	+ 1
2. ENGLAND, N.E.	64	34	57·8	42·5	49·8	+ 3·0	55	+ 14	0	− 5	4	+ 1	1·25	+0·84	4·3	−1·6	28	−11
3. ENGLAND, EAST ...	69	35	59·8	45·6	52·4	+ 4·0	73	+ 21	0	− 6	5	+ 2	0·96	+0·57	5·1	−1·1	34	− 8
4. MIDLAND COUNTIES ...	67	33	56·8	41·9	49·0	+ 0·7	49	− 5	0	− 9	5	+ 2	1·78	+1·36	3·0	−2·6	20	−18
5. ENGLAND, S.E.	70	32	57·8	44·9	51·0	+ 1·4	63	+ 7	0	− 2	4	+ 1	1·01	+0·62	4·0	−2·2	27	−15
Western.																		
6. SCOTLAND, WEST ...	59	33	53·1	41·8	47·2	− 0·2	37	− 9	1	− 3	5	+ 1	1·23	+0·56	3·7	−1 9	25	−13
7. ENGLAND, N.W.	59	32	54·8	41·9	48·0	0·0	42	− 4	0	− 3	5	+ 1	1·61	+1·10	3·4	−2·3	23	−15
8. ENGLAND, S.W.	58	34	53·1	43·6	48·1	− 0·9	43	− 8	0	− 2	6	+ 2	1·48	+0·94	2·8	−3·5	19	−23
9. IRELAND, NORTH ...	57	32	53·3	40·3	46·5	− 1·4	39	− 7	5	+ 2	6	+ 2	1·40	+0·81	5·2	−0·2	34	− 1
10. IRELAND, SOUTH ...	59	33	53·9	41·3	47·3	− 2·1	40	− 14	2	0	7	+ 3	1·63	+1·01	5·1	−0·7	34	− 5
11. ENGLISH CHANNEL ...	61	43	55·0	46·2	50·4	− 0·3	59	− 2	0	0	6	+ 3	1·01	+0·56	4·3	−3·3	30	−23

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 9 Weeks, March 2nd to May 3rd, 1913.

0. SCOTLAND, NORTH ...	62	21	*	*	*	*	158	− 30	195	− 11	43	+ 1	9·42	+ 1·95	3·7	−0·3	28	− 2
Eastern.																		
1. SCOTLAND, EAST ...	66	16	*	*	*	*	188	− 50	243	+ 21	41	+ 6	6·16	+ 1·85	4·4	+0·1	34	+ 1
2. ENGLAND, N.E.	66	20	*	*	*	*	248	+ 8	145	− 21	39	+ 7	5·22	+ 1·76	4·0	−0·7	31	− 6
3 ENGLAND, EAST ...	69	24	*	*	*	*	329	+ 17	94	− 80	39	+ 9	4·59	+ 1·36	4·0	−0·9	31	− 6
4. MIDLAND COUNTIES ...	68	22	*	*	*	*	300	− 23	129	− 56	41	+12	7·41	+ 3·79	3·5	−0·9	27	− 7
5. ENGLAND, S.E.	70	23	*	*	*	*	328	− 3	59	− 60	41	+13	5·83	+ 2·32	4·1	−0·7	31	− 6
Western.																		
6. SCOTLAND, WEST ...	63	21	*	*	*	*	238	− 10	130	− 24	43	+ 8	8·55	+ 2·14	3·9	−0·6	30	− 5
7. ENGLAND, N.W.	65	21	*	*	*	*	255	− 6	104	− 27	43	+10	8·49	+ 3·88	3·9	−0·4	30	− 4
8. ENGLAND, S.W.	68	20	*	*	*	*	289	− 28	69	− 30	44	+11	9·60	+ 4·45	3·7	−1·2	28	−10
9. IRELAND, NORTH ...	61	25	*	*	*	*	255	− 22	131	+ 7	47	+ 9	8·01	+ 2·76	4·3	0·0	33	0
10. IRELAND, SOUTH ...	65	23	*	*	*	*	303	− 36	94	+ 2	49	+14	9·07	+ 3·33	4·4	−0·4	34	− 3
11. ENGLISH CHANNEL ...	65	31	*	*	*	*	378	+ 4	2	− 28	40	+ 6	6·30	+ 2·03	4·4	−1·5	34	−12

THE YEAR.—Aggregates, &c., for the Period of 18 Weeks, December 29th, 1912, to May 3rd, 1913.

0. SCOTLAND, NORTH ...	62	21	*	*	*	*	226	− 22	421	−115	86	− 2	18·70	+0·27	2·3	−0·4	22	− 4
Eastern.																		
1. SCOTLAND, EAST ...	66	11	*	*	*	*	242	− 64	585	− 14	78	+ 8	11·02	+1·72	2·8	−0·4	26	− 3
2. ENGLAND, N.E.	66	18	*	*	*	*	329	+ 9	403	− 64	74	+ 9	9·10	+2·25	2·7	−0·7	25	− 6
3. ENGLAND, EAST ...	69	20	*	*	*	*	436	+ 34	303	−210	72	+ 8	8·14	+1·54	3·0	−0·5	27	− 5
4. MIDLAND COUNTIES ...	68	13	*	*	*	*	411	− 16	391	−130	75	+13	12·20	+4·40	2·4	−0·7	22	− 7
5. ENGLAND, S.E.	70	22	*	*	*	*	467	+ 18	221	−157	71	+11	10·79	+2·83	3·1	−0·4	28	− 4
Western.																		
6. SCOTLAND, WEST ...	63	17	*	*	*	*	338	+ 1	323	− 93	81	+ 6	17·49	+2·23	2·5	−0·6	23	− 6
7. ENGLAND, N.W.	65	10	*	*	*	*	362	+ 7	297	− 85	78	+ 9	14·37	+4·09	2·7	−0·4	25	− 3
8. ENGLAND, S.W.	68	19	*	*	*	*	452	− 16	221	− 77	85	+16	18·11	+5·96	2·8	−0·7	26	− 7
9. IRELAND, NORTH ...	61	21	*	*	*	*	406	+ 4	292	− 49	89	+ 9	15·29	+3·51	2·8	−0·3	26	− 2
10. IRELAND, SOUTH ...	65	22	*	*	*	*	502	− 23	239	− 18	93	+20	18·86	+5·57	3·0	−0·5	27	− 5
11. ENGLISH CHANNEL ...	65	31	*	*	*	*	643	+ 50	38	− 71	80	+ 5	13·02	+2·84	3·4	−0·9	31	− 8

M.O., May 7, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) No. 19. NINETEENTH WEEK, SUNDAY, MAY 4TH, TO SATURDAY, MAY 10TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. A very unsettled condition was again general, the sky being mostly very cloudy or overcast, and rain of frequent occurrence, while thunder and lightning were experienced from time to time in almost all districts, accompanied locally by hail.

Temperature was below the normal, but in England East and North-East the divergence was less than 0°·5. In England South-West it was rather more than 2°, in Ireland North 3°·3, and in Ireland South 4°·1. The highest of the maxima were registered either on the 5th or 10th in most parts of the Kingdom, and ranged from 64° in the Midland Counties to 57° in Ireland North. The lowest of the minima, which occurred at most places on the 7th, ranged from 30° in the Midland Counties and 31° in England South-East and South-West to 37° in Scotland North and to 42° in the English Channel. The lowest grass readings were 24° at Blackpool and Wisley, 25° at Kew, Hampstead, and Birmingham, and 26° at Stonyhurst and Southport. Over the Kingdom generally the temperature of the soil was below the normal at a depth of 1 foot, but above it in most districts at a depth of 4 feet.

Mean Temperature of the Sea. At all the observing stations the water was colder than during the corresponding week of last year, but on a few parts of the coast its temperature was rather above the average. The mean for the week ranged from nearly 52° at Scilly and Seafield, and about 51°·5 at the Shipwash Lightship, to 44°·5 at Burnmouth.

Rainfall corresponded very closely with the average in Scotland North, but over the Kingdom generally it was greatly in excess, the fall in the eastern parts of Scotland and the north-east of England being unusually heavy. Daily measurements of more than an inch were very common in those Districts, the largest being at Crathes, where 1·63 in. on the 8th was followed by 2·76 in. on the 9th, the fall continuing uninterruptedly during 36 hours. At Balmoral on the 8th, and again on the 9th, the fall was 1·0 in.; at Gordon Castle on the 9th 1·1 in., and at Aberdeen 1·2 in. In the north-east of England 1·6 in. fell at Alnwick Castle on the 6th, and 1·2 in. on the 8th; at Morpeth there was an inch on both days, and at North Shields 1·1 in. on the 6th.

Bright Sunshine was much less than the normal. In Scotland East the daily mean was only 1·7 hours, and the percentage of the possible duration no more than 11. In England South-West and the English Channel, where the daily mean was rather more than 5·5 hours, the respective percentages were 39 and 38.

Barometer and Wind. Depressions from the Atlantic continued to encroach on these Islands or to pass directly over the country. They were, as a rule, not very deep, but possessed sufficient intensity to cause a gale from the Eastward at times on the north-east coast of Scotland, and on the 8th there was a gale from the South-Eastward on some parts of the Welsh and Irish coasts. During the latter half of the week the centres of the systems remained off our south-western coasts, and the wind direction over the United Kingdom generally was between South-East and East.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 75.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Very deficient
	Rainfall ...	Moderate	Very heavy	Very heavy	Heavy	Heavy	Heavy	Very heavy	Heavy	Very heavy	Very heavy	Very heavy	Heavy
	Sunshine ...	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Moderate	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 10 weeks from March 2nd, 1913.	Warmth ...	1 * 4	1 * 4	4 * 2	4 * 2	3 * 2	3 * 2	2 * 3	3 * 3	1 * 1	1 * 3	1 * 3	2 * 3
	Rainfall ...	5 * 2	5 * 1	5 * 2	5 * 0	7 * 0	6 * 0	7 * 2	7 * 1	6 * 1	7 * 1	6 * 1	6 * 1
	Sunshine ...	3 * 2	2 * 2	1 * 4	0 * 6	1 * 5	0 * 4	1 * 6	1 * 3	0 * 5	2 * 3	1 * 4	0 * 8

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(30000—24.) Wt. 196—786., 450. 5/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*52*	*9, 10*	*40*	*5th*	*49·3*	*42·3*	*45·6*	—	*25*	*0*							*1*	*0·05*	—	*7·4*	—	*45*	—	*Baltasound.*
a Lerwick	49	9, 10	39	5, 6	47·6	41·7	44·5	+ 0·4	19	1							2	0·20	—	2·3	- 3·3	14	-21	Deerness.
a, Islands .. *a* Stornoway	56	5th	38	4th	51·3	41·9	46·3	+ 0·4	31	0							5	0·45	- 0·13	3·9	- 2·0	24	-13	Stornoway.
a Castlebay, Barra Isd.	*55*	*10th*	*41*	*4, 7*	*50·7*	*42·7*	*46·5*	- *2·7*	*32*	*0*							*5*	*1·13*	—	*5·2*	—	*33*	—	*Castlebay.*
a Wick	48	4th	41	8th	45·6	42·3	43·9	- 2·1	13	0							4	0·30	- 0·15					
p Strathpeffer	58	5th	37	5th	52·9	41·1	46·7	- 0·1	37	3							4	0·17	- 0·27	1·4	- 4·0	9	-25	Strathpeffer.
b, Main- *p* Glencarron ..	58	5th	38	8th	51·4	40·5	45·6	- 0·1	32	4							6	0·67	- 0·41					
land. *p* Fort Augustus..	59	5th	41	5th	53·3	43·9	48·3	+1·6	44	0							6	0·72	+ 0·19	1·6	- 2·6	10	-17	Fort Augustus.
p Fort William ..	60	5, 10	41	9, 10	53·1	42·6	47·5	- 0·7	39	0							6	1·68	+ 0·83					
1. SCOTLAND, E.											0	35	47·0	-0·4	45·1	+0·5	—	—	—	1·3	—	8	—	Crathes S.
p Gordon Castle.. S	60	5th	38	5th	51·7	41·1	46·1	- 1·2	32	3							5	1·88	+ 1·48	*3·0*	—	*19*	—	*Gordon Castle.*
a Nairn	60	5th	34	5th	53·3	39·9	45·7	- 1·6	35	6							3	0·39	+ 0·02	2·3	—	15	—	Nairn.
a Aberdeen ..	55	4th	42	6, 7	47·9	42·9	45·3	- 1·2	23	0					44·7	+0·5	5	2·31	+ 1·82	1·2	- 4·7	8	-30	Aberdeen.
a Balmoral ..	53	5th	37	6th	48·9	38·7	43·5	- 0·8	24	9	0	35					7	3·28	+ 2·76					Balmoral.
p Crieff	57	5th	39	6, 7	49·0	40·4	44·4	- 3·9	24	4							6	1·22	+ 0·69	1·6		10		Balruddery.
a Leith	56	10th	41	7, 8	51·6	42·9	47·0	- 1·2	35	0							5	0·50	+ 0·15					
p West Linton .. S	58	5th	35	5th	51·9	38·4	44·8	- 0·4	35	10	1	30					6	1·12	—	*1·5*	—	*10*	—	*West Linton.*
p Marchmont .. S	53	4, 10	39	6, 7	48·6	40·6	44·4	- 1·8	23	4	0	37	47·1	-0·5			6	1·16	+ 0·62	1·9	- 3·6	12	-13	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	59	4th	41	8th	50·7	42·6	46·4	- 0·5	31	0	0	40	46·7	-0·8	45·6	+0·4	6	3·32	+ 2·84	2·2		14	—	Cockle Park.
a Shields	53	5th	39	4, 7, 8	48·7	40·6	44·4	- 2·8	23	4							6	2·38	+ 2·01					
p Durham	57	10th	39	7th	52·1	42·4	47·0	- 0·2	35	0	0	38					5	1·38	+ 0·98	2·4	- 2·8	16	-18	Durham.
a, North .. *p* Rounton	59	10th	39	7th	54·7	42·4	48·2	+ 1·4	43	0	0	33	50·3				5	1·15	+ 0·78					Rounton.
a West Witton	*58*	*5th*	*35*	*7th*	*52·7*	*40·7*	*46·3*	—	*36*	*4*	1	30	47·9		44·2		7	*1·96*	—					*West Witton.*
p Scarborough	56	5th	40	7th	50·1	42·6	46·1	- 1·7	29	0					46·6†		4	1·07	+ 0·67	1·4	—	9	—	Scarborough.
p York	62	10th	39	7th	56·4	43·7	49·7	+ 0·1	54	0			47·6	-1·5	47·2	+0·8	5	1·17	+ 0·74	2·7	- 2·7	18	-18	York.
											0	35	48·1	-0·8	46·6	+0·9	—	—	—	*1·3*	—	*8*	—	*Hull.*
a Spurn Head	54	10th	40	7th	51·1	44·0	47·3	- 1·2	37	0							6	1·04	+ 0·72	*2·1*	—	*14*	—	*Spurn Head.*
b, South .. *a* Lincoln	62	10th	36	7th	55·9	43·3	49·2	- 0·8	50	0			49·1	-0·4	46·7	+0·2	6	1·21	+ 0·81					Lincoln.
a Fulbeck	61	10th	35	7th	54·3	43·0	48·3	- 1·2	44	0	1	30	50·8	-1·3	47·4	-0·3	5	1·28	+ 0·87	2·2	—	14	—	Rauceby.
																	—	—	—	2·5	—	16	—	Skegness.
											0	39	52·5	+0·6	49·7	+1·3	—	—	—	*1·0*	—	*7*	—	*Lowestoft.*
3. ENGLAND, E.																								
p Cromer	59	10th	42	7th	53·9	44·9	49·1	+ 0·9	50	0							6	0·59	—	1·8	—	12		Cromer.
p Little Massingham ..	58	10th	37	7th	54·6	43·7	48·8	- 0·7	48	0	0	36					5	0·99	+ 0·59	1·7	- 4·6	11	-30	Lit. Massingham.
a, North .. *a* Yarmouth	55	10th	41	7th	52·4	45·1	48·5	+ 0·1	46	0			53·0	-0·1	50·3	0·0	7	0·78	+ 0·40	1·5	—	10	—	Yarmouth.
a Norwich	59	10th	39	7th	55·7	44·3	49·7	+ 0·7	54	0	0	37	51·2				6	0·59	—	*1·5*	—	*10*	—	*Norwich.*
p Geldeston	59	10th	39	7th	54·9	45·1	49·7	+ 0·3	54	0							6	0·63	+ 0·24	1·6	- 5·0	11	-33	Geldeston.
p Cambridge	60	10th	33	7th	56·1	43·6	49·5	- 1·0	53	0	1	28	51·7	-0·3	49·7	+0·6	5	0·36	- 0·03	1·8	- 4·5	12	-29	Cambridge.
a Felixstowe	*57*	*10th*	*40*	*7th*	*53·4*	*47·6*	*50·3*	+ *0·8*	*58*	*0*							*5*	*0·95*	—	*3·1*	—	*21*	—	*Felixstowe.*
a Clacton-on-Sea ..	56	4th	38	7th	54·1	45·1	49·3	+ 0·2	51	0	0	33	52·9	+1·8	50·8	+1·2	4	0·53	—	3·6	—	24	—	Clacton.
b, South .. *a* Rothamsted ..	60	10th	33	7th	55·0	41·6	47·9	- 1·6	43	1							6	0·48	+ 0·06	3·0	- 3·0	20	-20	Rothamsted.
a Shoeburyness	*57*	*6th*	*40*	*7th*	*55·4*	*45·6*	*50·2*	- *1·3*	*57*	*0*	0	31	53·1	+0·6			*3*	*0·27*	+ *0·01*	*2·9*	—	*19*	—	*Southend.*
p Tottenham	59	10th	38	7th	55·9	45·3	50·3	- 0·4	58	0	0	32			49·6	+0·7	4	0·59	—	2·2	—	15	—	Tottenham.
4. MIDLAND COUNTIES.											1	29	48·1	-0·8	45·1	+0·7	—	—	—	*1·8*	—	*12*	—	*Huddersfield.*
a Harrogate	58	10th	34	7th	53·1	41·7	47·1	- 0·4	37	1	0	31	46·9	-0·1	46·1	+0·4	5	1·16	+ 0·68	2·4	—	16	—	Harrogate.
a Bawtry	62	10th	?	?	56·7	?	?	?	?	?	2	29	49·7		48·2		5	1·02	+ 0·63	2·3	- 2·9	15	-19	Worksop.
p Buxton	*55*	*10th*	*33*	*7th*	*51·0*	*38·9*	*44·6*	- *1·4*	*31*	*9*	1	29	46·8	-1·9	44·8	0·0	7	*1·39*	+ *0·71*	*2·0*	—	*13*	—	*Buxton.*
a, East .. *a* Nottingham	62	10th	34	7th	55·7	42·4	48·7	- 0·8	47	0	1	29	49·7	-0·5	47·5	+0·9	6	1·05	+ 0·66	2·1	—	14	—	Nottingham.
p Birmingham, Edgbsn.	59	10th	35	7th	53·1	42·0	47·2	- 2·2	36	0	2	25	45·6	-2·2	45·9	+0·5	6	0·90	+ 0·45	2·1	—	14	—	Birmingham
a Raunds	64	10th	33	7th	57·0	42·7	49·4	- 0·3	52	0	1	30	50·1		47·4		5	0·36	—					Raunds.
p Oxford	61	10th	36	7th	55·0	44·0	49·2	- 1·3	50	0	1	29					6	0·93	+ 0·55	2·7	- 3·3	18	-22	Oxford.
											1	29	47·8	-0·7	45·6	+0·5	—	—	—	2·3	—	15	—	Sheffield.
a Cheadle	55	7, 8	33	6th	52·6	42·9	47·5	- 0·7	39	0	0	32					7	1·21	+ 0·75					Cheadle.
p Shrewsbury	59	10th	32	7th	53·1	40·3	46·3	- 3·9	37	5	1	30					7	0·75	—					Shrewsbury.
b, West .. *a* Hereford	58	10th	35	7th	54·7	39·9	46·9	- 3·6	43	6	1	28					7	0·97	+ 0·52					Hereford.
a Cirencester	58	10th	30	7th	53·0	39·6	45·8	- 3·2	37	7	1	30	47·9		47·3		6	1·28	+ 0·33	3·1	- 3·2	21	-21	Cirencester.
a Bath	60	10th'	33	7th	56·1	41·3	48·3	- 2·5	47	2							6	1·47	+ 1·03	3·4	—	23	—	Bath.
5. ENGLAND, S.E.											0	32	52·9	+1·7	50·4	+1·0	—	—	—					Canterbury
p Kew	62	10th	37	7th	56·4	44·7	50·2	- 0·7	57	0	1	25	51·2	-0·3	49·2	+0·7	5	0·50	+ 0·14	2·8	- 3·3	19	-22	Kew.
a Marlborough	58	10th	31	7th	53·4	40·6	46·6	- 2·3	38	4	1	26			48·8		5	1·18	+ 0·75	3·2	- 2·5	21	-17	Marlborough.
a Margate	57	5, 10	40	7th	55·9	44·7	50·0	- 0·1	56	0	0	35	51·1	+0·6	49·4	+1·4	5	0·68	+ 0·35	3·2	- 2·9	21	-19	Margate.
a Wisley, Surrey ..	60	10th	35	7th	55·3	43·7	49·2	- 1·9	50	0	1	24	51·3	-0·2	49·3	+0·5	5	0·62	—	3·2	—	21	—	Wisley
											1	30	52·3	-0·6	50·4	+0·9	—	—	—	3·5	—	23	—	Worthing.
p Salisbury	58	5, 9, 10	32	7th	54·7	41·4	47·7	- 3·4	42	2	1	29	51·1				6	1·65	+ 1·19					Salisbury.
a Tunbridge Wells ..																	—	—	—					Tunbridge Wells.
a Dungeness	56	5, 6	35	7th	53·9	44·9	49·1	- 0·8	50	0							3	0·30	+ 0·02	4·3	—	29	—	Littlestone.
p Hastings..	55	5th	38	7th	53·6	45·0	49·0	- 1·5	49	0	0	32	53·6		50·5		2	0·40	+ 0·04	*4·2*	- *2·9*	*28*	- *20*	*Hastings.*
p Southampton	60	10th	36	7th	55·1	44·6	49·5	- 2·8	53	0	1	29					5	1·06	+ 0·62	3·4	- 3·3	23	-22	Southampton
a Ventnor	59	10th	38	4th	54·3	43·3	48·5	- 3·0	46	0							5	0·73	+ 0·36	3·6	- 3·5	24	-23	Ventnor.
											1	30	51·3	-2·5	51·9	+0·9	—	—	—	*3·4*	—	*23*	—	*Portsmouth.*
													52·8		50·9		—	—	—	4·8	- 2·3	32	-15	Eastbourne
													49·8		49·7		—	—	—	*3·6*	—	*24*	—	*Bournemouth.*
LONDON.											0	32			50·9		—	—	—	*3·6*	- *3·2*	*24*	- *21*	*Brighton.*
a Westminster	*61*	*10th*	*37*	*7th*	*57·0*	*45·1*	*50·7*	- *0·7*	*61*	*0*	0	33					*5*	*0·40*	+ *0·04*	*2·6*	- *2·4*	*17*	- *16*	*Westminster.*
a Greenwich	*63*	*5, 10*	*36*	*7th*	*58·6*	*43·3*	*50·5*	- *0·9*	*60*	*0*	1	29					*5*	*0·39*	+ *0·04*	*2·9*	- *2·8*	*19*	- *18*	*Greenwich.*
a Hampstead	*59*	*10th*	*35*	*7th*	*54·6*	*42·9*	*48·4*	—	*45*	*0*	1	25					*5*	*0·60*	—	*2·6*	—	*17*	—	*Hampstead.*
a Camden Square ..	*64*	*10th*	*35*	*7th*	*59·1*	*44·3*	*51·3*	—	*65*	*0*	0	33					*5*	*0·59*	—	*2·5*	—	*17*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	59	5th	41	7, 9	53·3	42·7	47·7	- 1·0	40	0							6	1·56	+ 0·96					
p Glasgow .. .. S	58	5th	41	7th	53·3	42·7	47·7	- 0·9	40	0	0	36					6	1·89	+ 1·35	0·9	- 4·1	6	-27	Glasgow.
p Rothesay .. S	61	5, 10	41	7, 10	56·6	44·1	50·0	+ 1·3	56	0					47·0	+0·9	7	1·37	+ 0·72					
a Kilmarnock ..	61	5th	39	10th	55·7	41·3	48·1	- 0·4	46	2							6	1·33	—	*3·2*	—	*21*	—	*Kilmarnock.*
a Colmonell ..	60	10th	36	7th	55·0	41·0	47·6	- 1·1	43	3	0	33					5	2·04	+ 1·47					
p Dumfries .. S	60	5th	38	7, 10	54·1	41·1	47·2	- 2·0	40	3	0	31	48·6		47·3		7	1·72	+ 1·17	*2·1*	—	*14*	—	*Dumfries.*
p Cally, Gatehouse S	58	5, 10	35	7th	53·9	39·7	46·4	- 2·2	40	6							6	2·92	+ 2·22					
b I. OF MAN																								
p Douglas	53	5th	38	7th	50·4	42·7	46·3	- 2·1	30	0	0	35					7	1·20	+ 0·62	4·5	- 2·5	29	-16	Douglas.
											1	27	47·2	-1·4	45·2	-0·1	—	—	—	*3·1*	—	*20*	—	*Burnley.*
											0	31					—	—	—	2·1	—	14	—	Hoylake.
c, *a*, ENGLAND, N.W.																								
p Aspatria	59	5, 10	37	5, 7	55·9	40·3	47·6	- 0·2	46	5	0	31	48·5		46·6		7	0·92	+ 0·37	3·1	—	20	—	Aspatria.
p Newton Rigg	59	5, 6	33	10th	55·6	38·9	46·6	- 0·6	45	9	1	29	47·5	-1·2	45·2	-0·1	6	0·71	+ 0·18	3·3	- 2·7	21	-18	Newton Rigg.
p Stonyhurst	58	5, 10	36	7th	55·0	43·1	48·7	+ 0·3	47	0	1	26					7	1·08	+ 0·45	2·2	- 3·8	14	-24	Stonyhurst.
p Blackpool	59	10th	34	7th	56·0	41·0	48·1	- 1·0	47	3	2	24	48·1		46·8		6	1·01	+ 0·54	3·1	- 3·1	20	-20	Blackpool.
p Manchester (Whit. Pk.)	60	10th	35	7th	56·1	43·4	49·4	- 1·1	52	0							7	1·22	+ 0·81	*1·8*	- *2·9*	*12*	- *19*	*Whit. Park.*
a Liverpool (Bidston) ..	59	10th	36	7th	54·6	42·1	48·0	- 1·5	42	0							7	0·83	+ 0·42	*3·0*	—	*20*	—	*Liverpool.*
a Hawarden Bridge ..	59	10th	35	7th	55·0	42·0	48·1	- 2·5	43	0	2	26	48·9	-3·6	48·7	-0·9	7	1·08	+ 0·71	*2·6*	- *3·9*	*17*	- *26*	*Southport.*
											0	35	47·9	-1·0	47·4	+0·5	—	—	—	*1·7*	—	*11*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	61	10th	38	7th	55·4	41·7	48·1	- 1·7	44	1							7	0·66	+ 0·24	3·8	- 2·5	25	-16	Llandudno.
a Holyhead	56	10th	40	7th	52·3	43·1	47·4	- 1·8	38	0							7	1·07	+ 0·62	*5·3*	—	*35*	—	*Holyhead.*
p Bettws-y-Coed ..	61	10th	34	7th	52·3	39·0	45·3	- 4·3	36	8	0	34	46·9	-2·1	47·0	+0·3	7	0·95	—	3·9	—	26	—	Bettws-y-Coed.
																	—	—	—	4·1	—	27	—	Aberdovey.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from average.	Mean.	Difference from average								
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				4·0	—	27	—	Aberystwyth.
a Llangammarch Wells	57	10th	31	7th	54·6	38·4	46·0	− 2·2	43	10	2	28	46·8	−3·0	46·6	−0·1	7	1·57	—	4·0	—	27	—	Llangammarch
a Pembroke	53	5, 8, 10	42	4th	51·7	43·4	47·3	− 2·0	37	0	*	*	*	*	*	*	6	1·91	+ 1·47	5·4	− 1·2	36	−10	Pembroke.[Wells
p Cardiff	59	5, 10	39	7th	54·9	42·0	48·1	− 3·1	43	0	0	31	49·9	−4·4	48·2	+0·2	7	1·12	+ 0·57	*4·0*	—	*27*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	60	10th	40	7th	55·3	44·0	49·3	− 1·9	51	0	0	34	*	*	*	*	6	0·95	+ 0·45	*3·5*	—	*23*	—	*Clifton.*
a Shaftesbury	56	10th	36	7th	51·6	40·0	45·5	− 3·7	33	6	*	*	48·1	*	48·1	*	7	1·37	+ 0·90	*	*	*	*	Shaftesbury.
a Arlington	57	5th	38	4, 7	52·4	41·6	46·7	− 2·2	35	1	*	*	*	*	*	*	6	1·06	+ 0·42	*	*	*	*	Arlington.
a Newquay	*57*	*9, 19*	*43*	*9th*	*53·1*	*44·9*	*48·8*	− *1·7*	*48*	*0*	*	*	51·4	*	*	*	*6*	*1·69*	+ *1·33*	8·0	+ 1·2	53	+ 8	Newquay.
a Cullompton	61	5th	37	8th	56·1	40·6	47·9	− 2·7	47	4	0	35	49·9	*	*	*	7	2·02	+ 1·53	4·4	− 1·7	29	−12	Cullompton.
a Portland	56	5th	43	4th	52·7	46·0	49·2	1·2	50	0	*	*	*	*	*	*	5	0·58	—	*4·5*	—	*30*	—	*Weymouth.*
p Plymouth	61	5th	41	4th	54·9	45·5	49·9	− 1·6	55	0	0	38	51·2	−2·3	*	*	6	1·62	+ 1·15	6·3	− 0·5	42	− 3	Plymouth.
p Falmouth	58	10th	42	4th	53·6	46·1	49·6	− 1·1	53	0	*	*	*	*	*	*	6	1·55	+ 1·05	8·7	+ 1·4	58	+ 9	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	56	4, 10	38	7th	51·7	41·4	46·2	− 1·9	32	2	*	*	*	*	*	*	6	0·96	+ 0·49	*	*	*	*	* *
a Blacksod Point ..	54	9th	40	4, 5, 6	51·3	41·1	45·9	− 3·7	31	3	*	*	*	*	*	*	6	1·11	+ 0·48	*	*	*	*	* *
p Markree Castle ..	57	10th	34	5th	53·3	39·0	45·7	− 2·8	39	8	2	28	48·7	*	47·1	*	5	1·60	+ 1·00	4·3	− 1·5	28	−10	Markree Castle.
a Birr Castle	56	5th	34	5th	53·6	38·6	45·7	− 3·7	40	10	*	*	*	*	*	*	7	2·03	+ 1·52	*4·0*	− *1·8*	*26*	−*12*	*Birr Castle.*
b, East .. { *p* Armagh	56	10th	34	5th	52·7	37·9	44·9	− 3·6	38	11	3	28	48·2	−3·0	47·1	−1·0	5	2·04	+ 1·50	4·5	− 1·3	29	− 8	Armagh.
a Donaghadee	53	5, 10	35	7th	50·1	42·3	46·0	− 2·6	28	0	*	*	*	*	*	*	7	1·16	+ 0·66	*	*	*	*	* *
											1	29	48·8	−2·3	48·6	−0·3	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											3	27	*	*	*	*	—	—	—	4·6	− 1·9	30	−13	Phœnix Park.
a, East .. { *p* Dublin, City	57	10th	38	4, 7	52·9	41·1	46·7	− 4·4	37	3	0	35	*	*	*	*	6	1·60	+ 1·14	*	*	*	*	Dublin City.
a Kilkenny	54	4, 5, 10	33	5th	52·9	38·6	45·3	− 4·2	37	10	*	*	*	*	*	*	7	1·64	+ 1·14	*	*	*	*	* *
a Waterford	55	4, 7, 10	36	5, 7	53·6	40·9	46·9	− 3·1	39	3	*	*	*	*	*	*	5	2·31	+ 1·79	*	*	*	*	* *
b, West .. { *a* Birr Castle	56	5th	34	5th	53·6	38·6	45·7	− 3·7	40	10	*	*	*	*	*	*	7	2·03	+ 1·52	4·0	− 1·8	26	−12	Birr Castle.
a Foynes	55	10th	36	7th	52·0	40·1	45·7	− 4·8	34	5	*	*	*	*	*	*	7	1·53	+ 1·01	*	*	*	*	* *
a Cahir	57	10th	34	5, 7	53·7	39·3	46·1	− 3·6	40	8	*	*	*	*	*	*	7	2·12	—	*	*	*	*	* *
a Killarney	59	7th	38	7th	53·7	41·2	47·1	− 2·8	39	2	*	*	*	*	*	*	7	2·37	+ 1·67	*	*	*	*	* *
a Valencia	55	9th	40	6th	52·1	42·1	46·8	− 3·9	34	0	*	*	*	*	*	*	6	2·26	+ 1·51	4·3	2·5	29	−15	Valencia.
a Roche's Point	53	4, 7	40	7th	51·7	42·7	46·9	− 3·7	34	0	*	*	*	*	*	*	7	1·92	+ 1·35	5·1	—	34	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	55	5, 9, 10	42	4th	53·7	44·3	48·7	− 2·5	47	0	*	*	*	*	*	*	6	1·54	+ 1·15	8·3	+ 1·1	56	+ 7	Scilly.
a Jersey, St. Aubins ..	61	10th	43	4th	56·6	46·1	51·0	− 1·1	63	0	*	*	*	*	*	*	6	0·71	+ 0·25	4·4	− 3·2	30	−22	St. Heliers.
a Guernsey (Villa Carey)	60	10th	43	4th	55·6	45·6	50·3	− 1·3	58	0	0	38	51·4	−1·9	50·8	+0·4	7	0·70	+ 0·25	4·5	− 3·5	30	−24	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·3 hrs. 22 %; Ramsgate, 4·3 hrs. 29 %; Rhyl, 3·9 hrs. 26 %; Salcombe, 5·8 hrs. 39 %; Tenby, 6·0 hrs. (−0·9) 40 % (−6 %); Torquay, 5·5 hrs. (−1·4) 37 % (−10 %).*
The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, May 10th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	46	46	46·0	+0·8	SCOTLAND, W. ..	{ Lamlash	49	45	46·5	+0·6
	{ Kirkwall	48	45	46·3	−0·5		{ Ballantrae	47	45	46·5	−1·2
	{ Wick	—	—	—	—	ENGLAND, N.W. ..	Port Erin	49	47	47·3	−0·4
SCOTLAND, E. ..	{ Cromarty	47	45	45·8	−0·1	ENGLAND, S.W. ..	{ Newquay	50	50	50·0	−1·3
	{ Pennan Bay	49	45	46·5	+0·2		{ Scilly	52	51	51·8	—
	{ Aberdeen, Cove Bay	—	—	—	—		{ Plymouth‡	52	50	50·7	+0·4
ENGLAND, N.E. ..	{ Burnmouth, Berwick	46	42	44·5	+0·1		{ Salcombe	51	49	50·0	0·0
	{ Scarborough	49	46	47·2	+1·3	IRELAND, N.W. ..	{ Sheephaven	50	47	48·3	−1·3
ENGLAND, E. ..	Shipwash Lightship	53	50	51·4	+3·3		{ Teelin	49	47	48·0	−4·0
ENGLAND, S.E. ..	Eastbourne‡	52	51	51·4	+0·7	IRELAND, S.W. ..	{ Cleggan	49	47	48·4	0·0
						IRELAND, E.	{ Seafield	54	50	51·7	−0·5
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

NINETEENTH WEEK—May 4th to May 10th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	60	37	50·7	42·0	46·1	− 0·5	29	− 13	0	− 7	5	+ 1	0·60	−0·06	2·3	−3·1	14	−19
Eastern.																		
1. SCOTLAND, EAST ...	60	34	50·2	40·6	45·2	− 1·8	28	− 19	4	− 4	5	+ 2	1·48	+1·01	1·7	−4·2	11	−27
2. ENGLAND, N.E.	62	35	52·7	42·7	47·4	− 0·3	38	− 7	0	− 4	5	+ 2	1·56	+1·14	2·2	−4·1	15	−26
3. ENGLAND, EAST ...	60	33	54·7	44·3	49·2	− 0·3	50	− 8	0	− 4	5	+ 2	0·62	+0·23	2·2	−4·4	14	−29
4. MIDLAND COUNTIES ...	64	30	54·3	41·7	47·7	− 1·7	41	− 19	1	− 4	6	+ 3	1·01	+0·60	2·6	−3·5	17	−23
5. ENGLAND, S.E.	62	31	54·7	43·7	48·9	− 1·9	48	− 16	0	− 2	5	+ 2	0·79	+0·45	3·6	−3·1	24	−21
Western.																		
6. SCOTLAND, WEST ...	61	35	54·0	41·9	47·6	− 0·9	40	− 13	0	− 3	6	+ 2	1·75	+1·10	2·7	−3 4	17	−22
7. ENGLAND, N.W.	61	33	54·8	41·5	47·7	− 1·4	42	− 11	1	− 1	7	+ 4	0·95	+0·46	3·2	−3·1	21	−21
8. ENGLAND, S.W.	61	31	53·8	42·8	48·0	− 2·2	42	− 18	0	− 1	6	+ 4	1·38	+0·92	5·8	−0·9	39	− 6
9. IRELAND, NORTH ...	57	34	52·1	40·1	45·7	− 3·3	34	− 19	5	+ 3	6	+ 2	1·48	+0·93	4·4	−1·5	29	−10
10. IRELAND, SOUTH ...	59	33	52·9	40·5	46·4	− 4·1	37	− 24	4	+ 3	7	+ 4	1·98	+1·45	4·5	−1·9	30	−12
11. ENGLISH CHANNEL ...	61	42	55·3	45·3	50·0	− 1·8	56	− 12	0	0	6	+ 3	0·98	+0·63	5·7	−2·5	38	−17

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 10 Weeks, March 2nd to May 10th, 1913.

0. SCOTLAND, NORTH ...	62	21	*	*	*	*	187	− 43	195	− 18	48	+ 2	10·02	+ 1·89	3·6	−0·5	27	− 4
Eastern.																		
1. SCOTLAND, EAST ...	66	16	*	*	*	*	216	− 69	247	+ 17	46	+ 8	7·64	+ 2·86	4·1	−0·4	31	− 3
2. ENGLAND, N.E.	66	20	*	*	*	*	286	+ 1	145	− 25	44	+ 9	6·78	+ 2·90	3·8	−1·1	29	− 8
3 ENGLAND, EAST ...	69	24	*	*	*	*	379	+ 9	94	− 84	44	+11	5·21	+ 1·59	3·9	−1·1	29	− 9
4. MIDLAND COUNTIES ...	68	22	*	*	*	*	341	− 42	130	− 60	47	+15	8·42	+ 4·39	3·4	−1·2	26	− 9
5. ENGLAND, S.E.	70	23	*	*	*	*	376	− 19	59	− 62	46	+15	6·62	+ 2·77	4·0	−1·0	30	− 8
Western.																		
6. SCOTLAND, WEST ...	63	21	*	*	*	*	278	− 23	130	− 27	49	+10	10·30	+ 3·24	3·8	−0·9	28	− 7
7. ENGLAND, N.W.	65	21	*	*	*	*	297	− 17	105	− 28	50	+14	9·44	+ 4·34	3·8	−0·7	29	− 6
8. ENGLAND, S.W.	68	20	*	*	*	*	331	− 46	69	− 31	50	+15	10·98	+ 5·37	3·9	−1·2	30	− 9
9. IRELAND, NORTH ...	61	25	*	*	*	*	289	− 41	136	+ 10	53	+11	9·49	+ 3·69	4·3	−0·1	32	− 1
10. IRELAND, SOUTH ...	65	23	*	*	*	*	340	− 60	98	+ 5	56	+18	11·05	+ 4·78	4·4	−0·5	33	− 4
11. ENGLISH CHANNEL ...	65	31	*	*	*	*	434	− 8	2	− 28	46	+ 9	7·28	+ 2·66	4·5	−1·6	35	−12

THE YEAR.—Aggregates, &c., for the Period of 19 Weeks, December 29th, 1912, to May 10th, 1913.

0. SCOTLAND, NORTH ...	62	21	*	*	*	*	255	− 35	421	−122	91	− 1	19·30	+0·21	2·3	−0·5	21	− 5
Eastern.																		
1. SCOTLAND, EAST ...	66	11	*	*	*	*	270	− 83	589	− 18	83	+10	12·50	+2·73	2·7	−0·6	25	− 5
2. ENGLAND, N.E.	66	18	*	*	*	*	367	+ 2	403	− 68	79	+11	10·66	+3·39	2·7	−0·8	24	− 8
3. ENGLAND, EAST ...	69	20	*	*	*	*	486	+ 26	303	−214	77	+10	8·76	+1·77	2·9	−0·8	26	− 7
4. MIDLAND COUNTIES ...	68	13	*	*	*	*	452	− 35	392	−134	81	+16	13·21	+5·00	2·4	−0·9	22	− 8
5. ENGLAND, S.E.	70	22	*	*	*	*	515	+ 2	221	−159	76	+13	11·58	+3·28	3·1	−0·6	28	− 5
Western.																		
6. SCOTLAND, WEST ...	63	17	*	*	*	*	378	− 12	323	− 96	87	+ 8	19·24	+3·33	2·5	−0·8	22	− 7
7. ENGLAND, N.W.	65	10	*	*	*	*	404	− 4	298	− 86	85	+13	15·32	+4·55	2·7	−0·5	25	− 5
8. ENGLAND, S.W.	68	19	*	*	*	*	494	− 34	221	− 78	91	+20	19·49	+6·88	3·0	−0·7	26	− 7
9. IRELAND, NORTH ...	61	21	*	*	*	*	440	− 15	297	− 46	95	+11	16·77	+4·44	2·9	−0·3	26	− 3
10. IRELAND, SOUTH ...	65	22	*	*	*	*	539	− 47	243	− 15	100	+24	20·84	+7·02	3·0	−0·6	27	− 5
11. ENGLISH CHANNEL ...	65	31	*	*	*	*	699	+ 38	38	− 71	86	+ 8	14·00	+3·47	3·5	−1·0	31	− 9

M.O., May 14, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given

† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.

‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 20. TWENTIETH WEEK, SUNDAY, MAY 11TH, TO SATURDAY, MAY 17TH, 1913.

Price 6d.
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I.—General Remarks.

Weather. Over the United Kingdom as a whole the greater part of the week was fair and dry, no rain falling after the early days, while in some parts of the Eastern half of England the period was dry throughout. Local thunderstorms were experienced in various places on the 11th, and at a few south-western stations on the 14th.

Temperature was a little above the normal in some districts, and below it in others, the greatest divergence being +1°·3 in England South-West. The highest of the maxima occurred generally during the latter days of the week, and ranged from 72° in England South-East and 70° in the Midland Counties and England East to 65° in the English Channel and 64° in Scotland West. The lowest of the minima, which were also recorded during the prevalence of the North-Easterly wind late in the week, varied from 29° in Scotland East and 30° in England North-East and the Midland Counties to 37° in England East and Ireland South, and to 46° in the English Channel. The lowest grass readings were 25° at Birmingham, and 26° at Crathes, Balmoral, and Southport. The temperature of the soil was above the average in a few parts of the country both at a depth of 1 foot and 4 feet, but generally it was below it, the greatest divergence being −3°·8 at 1 foot at Cardiff.

Mean Temperature of the Sea. On nearly all parts of the coast the water was colder than during the corresponding week of last year, and its temperature was also below the normal. The mean figure ranged from 54°·5 at Seafield, 53°·8 at Salcombe, and 53°·5 at Teelin to 46° at Lerwick and 45°·1 at Burnmouth.

Rainfall was less than the average in all districts except the English Channel and Scotland North, the fall in England East and North-East being less than 0·05 in. On the 12th the fall was very considerable at many places along the south and south-west coasts; at Westbourne the gauge yielded 1·04 in.

Bright Sunshine was much less than the normal in the English Channel, a little less in Scotland and the north of England and Ireland, and just equal to it in Ireland South. Elsewhere there was a slight excess. In the English Channel and Ireland North the daily mean was 5·2 hours and the percentage of the possible duration 34 and 32 respectively, in England South-West the corresponding figures were 7·2 hours, and 47, and in England East, 8·3 hours and 54.

Barometer and Wind. During the earlier days of the week a depression which arrived from the westward moved slowly from the south-west of Ireland to the Bay of Biscay, while pressure was highest in an anticyclone far to the northward of these Islands. The resulting Easterly winds were at first of little strength, but they subsequently increased somewhat, and as the northern high pressure system gradually took up a position off our western and north-western coasts, the direction became North-Easterly and Northerly. On Thursday a gale was experienced for a time on some parts of the English Channel. By the end of the week the high pressure lay to the south-westward of Ireland, while a depression had appeared off the north of Scotland, and the general direction of the wind in the United Kingdom was between South-West and North-West. On the extreme north-west and north-east coasts the force of a strong wind or gale was attained.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 79.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Light	Very light	Very light	Light	Moderate	Moderate	Light	Moderate	Light	Moderate	Heavy
	Sunshine ...	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 11 weeks from March 2nd, 1913.	Warmth ...	1 * 4	1 * 4	4 * 2	4 * 2	3 * 2	3 * 2	2 * 3	3 * 3	2 * 1	1 * 3	1 * 3	2 * 3
	Rainfall ...	5 * 2	5 * 2	5 * 3	5 * 1	7 * 1	6 * 0	7 * 2	7 * 2	6 * 1	7 * 2	6 * 1	7 * 1
	Sunshine ...	3 * 2	2 * 2	1 * 4	1 * 6	1 * 5	0 * 4	1 * 6	1 * 3	0 * 5	2 * 3	1 * 4	0 * 8

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6.	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(30113—24.) Wt. 196—786. 450. 5/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands .. *p* Baltasound .. S	53	11th	42	12, 15	50·5	43·0	46·5	—	52	0			48·0				3	0·63	—	5·8	—	34	—	*Baltasound.*
a Lerwick	53	11th	41	12th	49·4	43·1	46·1	+ 1·2	29	0							3	0·60	—	3·7	- 2·0	22	-12	Deerness.
a Stornoway	60	12th	36	15th	53·9	43·7	48·5	+ 1·5	46	0							2	0·85	+ 0·29	6·0	- 0·2	37	- 1	Stornoway.
a Castlebay, Barra Isd. .	61	12th	41	15th	54·3	45·3	49·5	- 1·0	53	0							3	0·72	—	7·3	—	45	—	*Castlebay.*
a Wick	58	16th	41	13, 14	50·0	43·0	46·3	- 0·6	30	0							3	0·50	+ 0·05					
b, Main- *p* Strathpeffer ..	65	13th	37	13th	59·0	41·1	49·5	+ 1·7	56	3							4	0·49	+ 0·05	6·7	+ 1·2	41	+ 7	Strathpeffer.
land. *p* Glencarron ..	64	13th	33	15th	55·5	38·9	46·7	0·0	46	9							2	1·22	+ 0·19					
p Fort Augustus..	68	13th	33	15th	55·1	41·1	47·7	0·0	44	3							2	0·17	- 0·35	5·2	+ 0·8	32	+ 5	Fort Augustus.
p Fort William ..	68	13th	35	15th	59·3	41·3	49·8	+ 0·6	58	2							2	0·52	- 0·32					
1. SCOTLAND, E.																								
p Gordon Castle.. S	63	16th	32	13th	56·6	39·8	47·7	- 0·8	49	6	2	26	47·8	-1·9	45·6	-0·4	—	—	—	7·0	—	43	—	Crathes S.
a Nairn	68	16th	37	12th	56·1	40·7	47·9	- 0·6	47	4							2	0·26	- 0·18	*7·0*	—	*43*	—	*Gordon Castle.*
a Aberdeen	63	16th	37	13th	54·3	41·4	47·5	- 0·2	41	2							4	0·20	- 0·17	6·4	—	39	—	Nairn.
a Balmoral ..	66	16th	29	13th	57·4	38·3	47·3	+ 1·8	53	10	2	26					2	0·49	+ 0·01	6·5	+ 0·4	40	+ 3	Aberdeen.
p Crieff	66	16th	36	13th	57·1	40·0	48·0	- 1·7	50	6					45·1	-0·3	2	0·08	- 0·45					Balmoral.
a Leith	65	16th	38	12th	52·9	41·9	47·1	- 2·3	36	0							2	0·13	- 0·42	6·7	—	42	—	Balrudd'ery.
p West Linton .. S	64	16th	31	16th	55·3	37·9	46·1	- 0·4	46	11	2	28					2	0·15	- 0·23					
p Marchmont .. S	67	16th	32	16th	52·6	39·6	45·7	- 1·8	36	7	1	28	47·6	-2·2			4	0·21	—	*4·3*	—	27	—	*West Linton.*
																	1	0·30	- 0·24	3·6	- 2·1	23	-13	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	60	17th	30	16th	52·1	40·0	45·7	- 2·2	34	6	1	27	47·1	-3·1	45·8	-1·0	1	0·11	- 0·38	3·5	—	22	—	Cockle Park.
a Shields	69	17th	34	16th	50·9	38·6	44·4	- 3·8	31	10							0	0·00	- 0·38					
p Durham	61	16th	31	16th	52·4	38·9	45·3	- 3·3	36	9	1	29					1	0·07	- 0·35	3·5	- 2·0	22	-12	Durham.
a, North .. *p* Rounton	62	17th	38	16th	55·9	40·3	47·6	- 0·2	46	5	0	31	50·7				1	0·01	- 0·39					Rounton
a West Witton	*62*	*16th*	*35*	*16th*	*56·4*	*39·3*	*47·3*	—	*48*	*8*	1	28	48·6		44·9		*0*	*0·00*	—					*West Witton.*
p Scarborough	66	17th	41	14, 17	52·3	42·3	47·0	- 2·0	35	0					47·5†		0	0·00	- 0·41	4·9	—	31	—	Scarborough.
p York	66	13th	38	17th	53·1	42·6	52·2	+ 1·4	71	0			51·8	+0·6	48·3	+0·7	1	0·06	- 0·38	7·7	+ 2·0	48	+12	York.
											1	29	51·6	+0·1	47·0	+0·1	—	—	—	6·3	—	*40*	—	*Hull.*
a Spurn Head	61	17th	40	17th	54·3	43·6	48·6	- 1·1	46	0							0	0·00	- 0·36	*8·2*	—	*52*	—	*Spurn Head.*
b, South .. *a* Lincoln	69	13th	37	17th	61·4	42·6	51·4	+ 0·2	66	0			51·9	-0·3	47·6	-0·3	0	0·00	- 0·41					Lincoln.
a Fulbeck	68	17th	32	17th	60·9	41·1	50·4	- 0·1	63	3	3	23	53·2	-1·9	48·1	-0·8	0	0·00	- 0·42	9·1	—	58	—	Rauceby.
																	—	—	—	8·4	—	54	—	Skegness.
3. ENGLAND, E.											0	41	54·1	-0·3	50·6	+0·7	—	—	—	*7·1*	—	*46*	—	*Lowestoft.*
p Cromer	63	12th	42	17th	56·0	45·1	50·2	+ 0·5	57	0							1	0·07	—	6·2	—	40	—	Cromer.
p Little Massingham ..	66	17th	40	17th	60·1	42·7	50·9	0·0	62	0	0	37					0	0·00	- 0·42	9·6	+ 3·0	62	+19	Lit. Massingham.
a, North .. *a* Yarmouth	60	11th	44	17th	55·0	46·4	50·4	+ 0·8	59	0			54·4	-1·5	51·7	0·0	1	0·02	- 0·36	7·2	—	46	—	Yarmouth.
a Norwich	69	17th	42	12, 17	61·9	44·4	52·6	+ 2·4	74	0	0	38	54·2				0	0·00	—	*9·1*	—	*58*	—	*Norwich.*
p Geldeston	70	17th	43	17th	60·0	44·9	52·0	+ 1·5	70	0							0	0·00	- 0·40	8·8	+ 1·8	56	+12	Geldeston.
p Cambridge	69	17th	38	11th	63·4	43·3	52·8	+ 0·9	76	0	0	32	53·9	-0·1	50·6	0·0	1	0·04	- 0·37	9·2	+ 2·7	60	+18	Cambridge.
a Felixstowe	*60*	*17th*	*41*	*17th*	*58·0*	*45·6*	*51·4*	+ *0·7*	*66*	*0*							*0*	*0·00*	—	*9·5*	—	*62*	—	*Felixstowe.*
a Clacton-on-Sea ..	62	14, 17	41	17th	58·7	46·0	52·0	+ 1·9	70	0	0	34	54·0	+0·4	51·8	+0·7	2	0·04	—	9·2	—	60	—	Clacton.
b, South .. *a* Rothamsted ..	68	17th	37	17th	62·4	42·4	51·8	+ 1·1	69	0							2	0·07	- 0·36	7·9	+ 1·6	51	+11	Rothamsted.
a Shoeburyness	*62*	*11, 14*	*41*	*17th*	*60·0*	*45·7*	*52·4*	- *0·3*	*73*	*0*	0	33	54·9	-0·4			*1*	*0·05*	- *0·20*	*9·0*	—	*58*	—	*Southend.*
p Tottenham	69	17th	40	17th	64·3	44·0	53·5	+ 1·7	81	0	0	36			50·5	+0·1	2	0·04	—	8·0	—	52	—	Tottenham.
4. MIDLAND COUNTIES.											0	33	50·9	-0·5	45·9	+0·5	—	—	—	*5·3*	—	*34*	—	*Huddersfield.*
a Harrogate	60	11th	38	11, 16, 17	56·9	40·0	47·9	- 0·8	50	6	0	32	48·8	-0·2	46·9	-0·2	1	0·28	- 0·19	5·7	—	36	—	Harrogate.
p Bawtry	70	13th	35	17th	62·7	40·7	51·0	+ 0·3	68	4	1	30	51·8		49·0		0	0·00	- 0·42	6·2	+ 0·8	40	+ 5	Worksop.
p Buxton	*63*	*13th*	*34*	*16th*	*57·9*	*38·6*	*47·7*	+ *0·5*	*54*	*10*	0	32	48·7	-2·4	45·3	-0·4	*2*	*0·33*	- *0·47*	*6·8*	—	*43*	—	*Buxton.*
a, East .. *a* Nottingham	67	13th	33	17th	60·7	40·7	50·1	- 0·7	62	4	0	32	52·2	-0·6	48·5	+0·3	2	0·08	- 0·33	7·8	—	50	—	Nottingham.
p Birmingham, Edgbsn.	63	17th	38	16th	59·4	43·0	50·7	+ 0·2	61	0	3	25	47·7	-1·6	46·2	-0·1	1	0·06	- 0·40	6·6	—	42	—	Birmingham
a Raunds	69	17th	35	17th	62·7	42·1	51·8	+ 0·9	69	0	0	31	52·5		48·6		2	0·18	—					Raunds.
p Oxford	69	17th	38	17th	62·3	44·0	52·6	+ 0·9	74	0	0	34					2	0·44	+ 0·04	6·5	+ 0·2	42	+ 2	Oxford.
											0	32	49·6	-1·1	46·3	+0·1	—	—	—	5·5	—	36	—	Sheffield.
a Cheadle	65	13, 16	30	15th	59·7	41·6	50·1	+ 0·9	58	1	1	28					1	0·05	- 0·42					Cheadle.
p Shrewsbury	68	13th	32	16th	62·3	42·3	51·7	+ 0·4	68	0	0	32					2	0·22	—					Shrewsbury.
b, West .. *a* Hereford	68	17th	36	16th	62·4	42·0	51·6	+ 0·1	67	0	0	32					2	0·50	+ 0·03					Hereford.
a Cirencester	67	17th	35	17th	61·4	41·3	50·8	+ 0·6	65	2	0	33	49·6		47·4		3	0·36	- 0·11	8·2	+ 1·7	53	+11	Cirencester.
a Bath	69	13th	38	17th	63·3	44·1	53·1	+ 1·1	78	0							2	0·32	- 0·11	6·9	—	45	—	Bath.
5. ENGLAND, S.E.											0	37	54·8	+0·9	51·5	+0·6	—	—	—					Canterbury
p Kew	69	17th	39	17th	62·7	44·6	53·1	+ 0·8	78	0	0	31	53·1	-0·9	49·9	+0·3	2	0·10	- 0·26	7·2	+ 0·8	47	+ 5	Kew.
a Marlborough	69	17th	34	17th	62·4	41·9	51·5	+ 1·5	67	0	0	31			+9·3		2	0·28	- 0·15	5·5	+ 0·5	42	+ 4	Marlborough.
a Margate	67	17th	43	11th	57·3	47·1	51·9	+ 0·5	69	0	0	39	52·2	-0·8	50·0	+0·4	1	0·01	- 0·33	5·3	- 1·1	34	- 7	Margate.
a Wisley, Surrey ..	70	17th	38	17th	63·7	43·0	52·7	+ 0·5	75	0	2	26	53·5	-0·6	50·1	-0·3	2	0·06	—	6·7	—	44	—	Wisley
											0	42	54·9	-0·5	51·2	+0·3	—	—	—	8·3	—	54	—	Worthing.
p Salisbury	71	17th	40	17th	63·9	44·3	53·5	+ 1·0	81	0	0	38	54·4				3	0·50	+ 0·05					Salisbury.
a Tunbridge Wells ..																	—	—	—					Tunbridge Wells.
a Dungeness	62	14th	44	17th	58·0	48·0	52·7	+ 1·4	75	0							0	0·00	- 0·27	7·0	—	46	—	Littlestone.
p Hastings..	66	14th	42	17th	59·9	47·0	53·1	+ 1·4	78	0	0	41	54·7		51·3		1	0·13	- 0·24	*7·2*	- *0·3*	*47*	- *2*	*Hastings.*
p Southampton	72	17th	43	16, 17	64·1	46·9	55·0	+ 1·4	91	0	0	38					2	0·63	+ 0·19	7·5	+ 0·5	49	+ 3	Southampton
a Ventnor	69	17th	43	16th	62·9	46·6	54·3	+ 1·6	86	0							3	0·36	- 0·01	7·6	+ 0·3	50	+ 2	Ventnor.
											0	38	55·1	-1·1	52·2	-0·2	—	—	—	*8·5*	—	*56*	—	*Portsmouth.*
													54·1		51·7		—	—	—	6·6	- 0·7	43	- 5	Eastbourne
													53·0		50·9		—	—	—	*8·7*	—	*57*	—	*Bournemouth.*
LONDON.											0	40			51·8		—	—	—	*7·8*	+ *0·7*	*51*	+ *5*	*Brighton.*
a Westminster	*71*	*17th*	*41*	*17th*	*64·9*	*46·3*	*55·0*	+ *2·2*	*91*	*0*	0	37					*2*	*0·07*	- *0·29*	*7·2*	+ *1·9*	*47*	+*12*	*Westminster.*
a Greenwich	*71*	*17th*	*39*	*17th*	*65·0*	*43·7*	*53·7*	+ *0·8*	*82*	*0*	1	30					*2*	*0·05*	- *0·33*	*6·9*	+ *0·9*	*45*	+ *6*	*Greenwich.*
a Hampstead	*69*	*17th*	*38*	*17th*	*61·7*	*43·9*	*52·3*	—	*72*	*0*	1	30					*2*	*0·14*	—	*7·5*	—	*49*	—	*Hampstead.*
a Camden Square ..	*73*	*17th*	*40*	*17th*	*67·4*	*44·4*	*55·2*	—	*92*	*0*	0	37					*2*	*0·08*	—	*7·1*	—	*46*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	64	13th	40	16th	60·1	44·3	51·7	+ 1·8	68	0							2	0·28	- 0·33					
p Glasgow	63	13, 16	40	16th	57·4	43·0	49·8	+ 0·1	55	0	1	28					2	0·19	- 0·38	5·0	- 0·3	31	- 2	Glasgow.
p Rothesay	64	13, 16	40	16th	59·4	43·4	50·9	+ 1·2	62	0					47·6	+0·3	2	0·26	- 0·39					
a Kilmarnock ..	64	13th	35	16th	58·9	43·4	50·7	+ 0·9	61	0							2	0·08	—	*7·8*	—	*49*	—	*Kilmarnock.*
a Colmonell ..	64	12, 13	35	16th	59·9	41·4	50·1	+ 0·1	59	2	0	33					4	0·17	- 0·41					
p Dumfries ..	64	16th	36	16th	59·0	41·9	49·9	- 0·6	56	0	0	31	52·1		48·4		5	1·07	+ 0·50	*6·7*	—	*42*	—	*Dumfries.*
p Cally, Gatehouse ..	62	16th	33	16th	58·3	42·9	50·1	+ 0·2	57	0							3	0·39	- 0·31					
b I. OF MAN																								
p Douglas	60	13th	37	16th	55·9	44·3	49·8	+ 0·2	55	0	0	34					3	0·54	- 0·03	6·8	- 0·4	43	- 3	Douglas.
7. *a*, ENGLAND, N.W.											1	28	50·3	-0·7	46·0	-0·3	—	—	—	*6·8*	—	*43*	—	*Burnley.*
											0	32					—	—	—	4·6	—	29	—	Hoylake.
p Aspatria	61	11th	33	16th	57·6	40·3	48·4	- 0·8	52	5	1	29	50·5		47·1		2	0·47	- 0·10	7·5	—	47	—	Aspatria.
p Newton Rigg	66	16th	38	11th	59·3	41·3	49·8	+ 1·3	58	2	1	30	50·7	-0·5	46·1	-0·6	4	0·08	- 0·46	7·6	+ 1·3	48	+ 8	Newton Rigg.
p Stonyhurst	64	13th	36	16th	59·7	43·3	51·0	+ 1·1	63	0	1	28					1	0·23	- 0·49	6·8	+ 0·6	43	+ 4	Stonyhurst.
p Blackpool	66	13th	33	16th	58·6	41·7	49·6	- 0·8	54	1	2	22	49·8		47·2		2	0·03	- 0·45	5·8	- 0·7	37	- 4	Blackpool.
p Manchester (Whit. Pk.)	66	13th	40	16th	61·0	44·7	52·4	+ 2·4	73	0							2	0·17	- 0·25	*6·3*	+ *1·4*	*40*	+ *9*	*Whit. Park.*
a Liverpool (Bidston) ..	66	13th	38	16th	57·9	44·9	51·0	+ 0·3	63	0	0	41					3	0·14	- 0·28	*4·4*	—	*28*	—	*Liverpool.*
a Hawarden Bridge ..	66	13th	38	16th	58·4	43·3	50·4	- 1·4	59	0	1	26	52·1	-2·9	49·5	-1·8	3	0·12	- 0·28	*5·1*	- *1·7*	*33*	- *11*	*Southport.*
											0	34	51·9	+0·3	48·4	+0·2	—	—	—	*6·2*	—	*40*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	59	11th	38	16th	56·6	44·9	50·4	- 0·4	59	0							4	0·50	+ 0·07	5·1	- 1·5	33	- 9	Llandudno.
a Holyhead	62	13th	43	16, 17	55·4	45·9	50·4	+ 0·3	59	0							4	0·48	+ 0·06	6·7	—	*43*	—	*Holyhead.*
p Bettws-y-Coed ..																	—	—	—					Bettws-y-Coed.
																	—	—	—	6·7	—	43	—	Aberdovey.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	67	13th	34	17th	61·9	42·7	51·7	+ 2·2	68	0	1	30	50·4	−1·3	47·2	−0·5	3	0·23	—	7·0	—	45	—	Aberystwyth.
a Pembroke	64	13th	44	16th	57·7	46·4	51·7	+ 1·6	68	0	•	•	•	•	•	•	4	0·26	− 0·16	7·5	—	49	—	Llangammarch
p Cardiff	67	13th	39	16th	61·4	45·1	52·8	+ 0·6	76	0	0	32	52·5	−3·8	48·9	+0·5	2	0·71	+ 0·16	5·9	− 1·2	38	− 8	Pembroke.[Wells
																				8·1	—	*53*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	69	13, 17	40	16th	63·9	45·7	54·3	+ 1·8	86	0	0	39	•	•	•	•	2	0·21	− 0·29	*7·6*	—	*49*	—	*Clifton.*
a Shaftesbury	65	13th	37	16th	59·7	42·6	50·6	+ 0·2	60	0	•	•	50·8	•	48·3	•	2	0·47	0·00	•	•	•	•	Shaftesbury.
a Arlington	67	13th	40	16, 17	61·7	43·1	51·8	+ 1·9	69	0	•	•	•	•	•	•	2	0·16	− 0·47	•	•	•	•	Arlington.
a Newquay	*57*	*11, 12, 13*	*46*	*11, 17*	*56·0*	*47·6*	*51·6*	*+ 0·2*	*67*	*0*	•	•	53·6	•	•	•	*3*	*0·46*	*+ 0·13*	7·2	+ 0·1	47	+ 1	Newquay.
a Cullompton	69	13, 17	40	17th	63·9	44·1	53·4	+ 1·6	80	0	0	37	53·4	•	•	•	3	0·50	+ 0·03	6·7	+ 0·3	44	+ 2	Cullompton.
a Portland	65	14th	43	16th	59·9	47·4	53·3	+ 1·8	79	0	•	•	•	•	•	•	4	0·59	—	*8·6*	—	*56*	—	*Weymouth.*
p Plymouth	68	13th	48	11, 12, 17	63·1	49·0	55·6	+ 2·9	95	0	0	40	56·1	+0·7	•	•	3	0·77	+ 0·32	7·5	+ 0·4	49	+ 3	Plymouth.
p Falmouth	63	13th	48	16th	59·4	49·7	54·3	+ 2·6	86	0	•	•	•	•	•	•	3	0·81	+ 0·33	8·3	+ 0·7	54	+ 5	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	57	11th	44	14th	53·3	45·6	49·2	0·0	56	0	•	•	•	•	•	•	3	0·04	− 0·44	•	•	•	•	
a Blacksod Point ..	57	13th	45	15, 16	54·1	46·1	49·9	− 0·7	55	0	•	•	•	•	•	•	4	0·33	− 0·28	•	•	•	•	
p Markree Castle ..	60	11th	35	15th	56·9	43·6	49·9	+ 0·3	55	0	1	29	50·8	•	47·7	•	5	0·28	− 0·32	4·6	− 1·5	29	− 9	Markree Castle.
a Birr Castle	66	16th	37	16th	59·4	43·3	50·9	+ 0·3	62	0	•	•	•	•	•	•	4	0·20	− 0·32	*4·9*	− *1·1*	*31*	− *7*	*Birr Castle.*
b, East .. *p* Armagh	63	16th	36	16th	58·4	43·0	50·2	+ 0·6	57	0	1	30	51·3	−1·9	47·7	−1·7	4	0·28	− 0·29	5·7	− 0·3	36	− 2	Armagh.
a Donaghadee	59	15th	40	16th	54·3	44·9	49·3	− 0·4	51	0	•	•	•	•	•	•	3	0·07	− 0·45	•	•	•	•	
											0	33	51·8	−1·1	49·1	−0·9	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND. S.											1	28	•	•	•	•	—	—	—	6·4	− 0·4	41	− 3	Phœnix Park.
a, East .. *p* Dublin, City	63	11th	41	16th	57·7	46·7	51·9	− 0·1	69	0	0	38	•	•	•	•	3	0·62	+ 0·15	•	•	•	•	Dublin City.
a Kilkenny	66	16th	39	16th	59·7	46·0	52·4	+ 1·7	75	0	•	•	•	•	•	•	3	0·35	− 0·15	•	•	•	•	
a Waterford	66	13, 16	39	16th	61·4	45·4	52·9	+ 1·5	76	0	•	•	•	•	•	•	2	0·78	+ 0·27	•	•	•	•	
b, West .. *a* Birr Castle	66	16th	37	16th	59·4	43·3	50·9	+ 0·3	62	0	•	•	•	•	•	•	4	0·20	− 0·32	4·9	− 1·1	31	− 7	Birr Castle.
a Foynes	63	17th	41	15, 16	58·7	44·6	51·2	− 0·6	64	0	•	•	•	•	•	•	5	0·68	+ 0·18	•	•	•	•	
a Cahir	67	16th	41	16th	62·4	46·1	53·8	+ 2·8	83	0	•	•	•	•	•	•	2	0·31	—	•	•	•	•	
a Killarney	68	16th	41	16th	61·4	46·0	53·2	+ 2·2	78	0	•	•	•	•	•	•	4	0·25	− 0·42	•	•	•	•	
a Valencia	61	13, 16	45	15th	57·1	47·3	51·9	+ 0·4	69	0	•	•	•	•	•	•	5	0·38	− 0·32	7·3	+ 0·5	47	+ 3	Valencia.
a Roche's Point	63	13th	43	16th	59·0	47·3	52·8	+ 1·3	76	0	•	•	•	•	•	•	2	0·39	− 0·15	8·5	—	55	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	57	13th	46	11th	55·3	47·6	51·2	− 0·8	64	0	•	•	•	•	•	•	2	0·23	− 0·14	7·2	− 0·4	47	− 3	Scilly.
a Jersey, St. Aubins ..	65	17th	49	14–16	57·3	49·7	53·3	− 0·1	79	0	•	•	•	•	•	•	5	0·81	+ 0·36	3·4	− 4·6	23	−30	St. Heliers.
a Guernsey (Villa Carey)	64	17th	47	15-17	56·7	48·0	52·1	− 0·5	71	0	0	41	53·5	−1·8	51·5	+0·3	5	0·83	+ 0·40	5·0	− 3·3	33	−22	Guernsey.•

Additional Sunshine Means:—*Bognor, 8·9 hrs. 58 %; Ramsgate, 6·0 hrs. 39 %; Rhyl, 5·6 hrs. 36 %; Salcombe, 9·3 hrs. 61 %; Tenby, 8·2 hrs. (+1·1) 53 % (+7 %); Torquay, 8·8 hrs. (+1·5) 58 % (+10 %).*

• The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA, Week ending on morning of Saturday, May 17th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	47	46	46·7	+0·7	SCOTLAND, W. ..	Lamlash	53	46	48·5	+0·6
	Kirkwall	49	45	47·6	−0·5	ENGLAND, N.W. ..	Ballantrae	47	46	46·6	−2·7
	Wick	46	45	45·5	−1·4		Port Erin	51	48	48·5	+0·2
SCOTLAND, E. ..	Cromarty	49	45	47·0	−1·1	ENGLAND, S.W. ..	Newquay	51	50	50·9	−1·8
	Pennan Bay	50	45	47·0	−1·1		Scilly	53	52	53·0	—
	Aberdeen, Cove Bay	—	—	—			Plymouth‡	54	52	53·3	+2·0
ENGLAND, N.E. ..	Burnmouth, Berwick	45	42	43·4	−1·7		Salcombe	56	51	53·8	+2·6
	Scarborough	50	47	48·5	+1·6	IRELAND, N.W. ..	Sheephaven	53	48	50·2	−0·7
ENGLAND, E. ..	Shipwash Lightship	56	50	52·6	+2·8		Teelin	53	48	50·9	−2·6
ENGLAND, S.E. ..	Eastbourne‡	54	52	52·7	−0·1	IRELAND, S.W. ..	Cleggan	50	48	49·7	−1·7
							Seafield	56	53	54·5	+1·0
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, fo that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTIETH WEEK—May 11th to May 17th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	68	33	54·6	41·7	47·8	+ 0·2	42	− 4	1	− 5	3	− 1	0·62	0·00	5·4	−0·2	33	− 1
Eastern.																		
1. SCOTLAND, EAST ...	68	29	55·3	40·0	47·2	− 0·9	45	− 7	6	0	2	− 2	0·23	−0·27	6·0	−0·1	38	− 1
2. ENGLAND, N.E.	69	30	55·9	41·1	48·1	− 0·8	46	− 6	3	0	1	− 2	0·03	−0·35	6·2	−0·3	39	− 2
3. ENGLAND, EAST ...	70	37	60·2	44·4	51·8	+ 0·9	69	+ 3	0	− 3	1	− 2	0·03	−0·40	8·3	+1·6	54	+11
4. MIDLAND COUNTIES ...	70	30	61·3	42·0	51·0	+ 0·2	63	− 4	0	− 4	2	− 1	0·23	−0·25	6·7	+0·6	43	+ 4
5. ENGLAND, S.E.	72	34	61·7	45·5	53·1	+ 0·8	78	+ 4	0	− 1	2	− 1	0·23	−0·18	7·0	+0·2	45	+ 1
Western.																		
6. SCOTLAND, WEST ...	64	33	58·6	43·1	50·4	+ 0·5	59	0	0	− 3	3	0	0·37	−0·29	5·9	−0·6	37	− 4
7. ENGLAND, N.W.	66	33	58·3	43·4	50·4	− 0·1	59	− 3	0	− 1	3	0	0·25	−0·25	6·3	−0·3	40	− 2
8. ENGLAND, S.W.	69	34	61·3	45·6	53·0	+ 1·3	77	+ 8	0	− 1	3	0	0·47	−0·02	7·2	+0·3	47	+ 2
9. IRELAND, NORTH ...	66	35	56·1	44·4	49·9	− 0·3	55	− 5	0	− 1	4	0	0·20	−0·34	5·2	−1·2	32	− 7
10. IRELAND, SOUTH ...	68	37	59·6	45·9	52·3	+ 0·6	72	+ 3	0	− 1	3	− 1	0·44	−0·10	6·8	0·0	44	0
11. ENGLISH CHANNEL ...	65	46	56·4	48·4	52·2	− 0·8	71	− 6	0	0	4	+ 1	0·62	+0·22	5·2	−2·9	34	−19

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 11 Weeks, March 2nd to May 17th, 1913.

0. SCOTLAND, NORTH ...	68	21	*	*	*	*	229	− 47	196	− 23	51	+ 1	10·64	+ 1·89	3·8	−0·5	27	− 4
Eastern.																		
1. SCOTLAND, EAST ...	68	16	*	*	*	*	261	− 76	253	+ 17	48	+ 6	7·87	+ 2·59	4·3	−0·3	31	− 3
2. ENGLAND, N.E.	69	20	*	*	*	*	332	− 5	148	− 25	45	+ 7	6·81	+ 2·55	4·1	−0·9	30	− 7
3 ENGLAND, EAST ...	70	24	*	*	*	*	448	+ 12	94	− 87	45	+ 9	5·24	+ 1·19	4·3	−0·9	32	− 7
4. MIDLAND COUNTIES ...	70	22	*	*	*	*	404	− 46	130	− 64	49	+14	8·65	+ 4·14	3·7	−1·0	28	− 7
5. ENGLAND, S.E.	72	23	*	*	*	*	454	− 15	59	− 63	48	+14	6·85	+ 2·59	4·3	−0·9	32	− 7
Western.																		
6. SCOTLAND, WEST ...	64	21	*	*	*	*	337	− 23	130	− 30	52	+10	10·67	+ 2·95	4·0	−0·8	29	− 7
7. ENGLAND, N.W.	66	21	*	*	*	*	356	− 20	105	− 29	53	+14	9·69	+ 4·09	4·0	−0·7	30	− 5
8. ENGLAND, S.W.	69	20	*	*	*	*	408	− 38	69	− 32	53	+15	11·45	+ 5·35	4·2	−1·1	31	− 8
9. IRELAND, NORTH ...	66	25	*	*	*	*	344	− 46	136	+ 9	57	+11	9·69	+ 3·35	4·4	−0·2	32	− 2
10. IRELAND, SOUTH ...	68	23	*	*	*	*	412	− 57	98	+ 4	59	+17	11·49	+ 4·68	4·6	−0·5	35	− 4
11. ENGLISH CHANNEL ...	65	31	*	*	*	*	505	− 14	2	− 28	50	+10	7·90	+ 2·88	4·6	−1·7	35	−13

THE YEAR.—Aggregates, &c., for the Period of 20 Weeks, December 29th, 1912, to May 17th, 1913.

0. SCOTLAND, NORTH ...	68	21	*	*	*	*	297	− 39	422	−127	94	− 2	19·92	+0·21	2·5	−0·4	22	− 5
Eastern.																		
1. SCOTLAND, EAST ...	68	11	*	*	*	*	315	− 90	595	− 18	85	+ 8	12·73	+2·46	2·9	−0·5	26	− 5
2. ENGLAND, N.E.	69	18	*	*	*	*	413	− 4	406	− 68	80	+ 9	10·69	+3·04	2·9	−0·8	25	− 7
3. ENGLAND, EAST ...	70	20	*	*	*	*	555	+ 29	303	−217	78	+ 8	8·79	+1·37	3·2	−0·6	28	− 6
4. MIDLAND COUNTIES ...	70	13	*	*	*	*	515	− 39	392	−138	83	+15	13·44	+4·75	2·7	−0·7	23	− 7
5. ENGLAND, S.E.	72	22	*	*	*	*	593	+ 6	221	−160	78	+12	11·81	+3·10	3·3	−0·5	29	− 5
Western.																		
6. SCOTLAND, WEST ...	64	17	*	*	*	*	437	− 12	323	− 99	90	+ 8	19·61	+3·04	2·6	−0·8	23	− 7
7. ENGLAND, N.W.	66	10	*	*	*	*	463	− 7	298	− 87	88	+13	15·57	+4·30	2·9	−0·5	26	− 5
8. ENGLAND, S.W.	69	19	*	*	*	*	571	− 26	221	− 79	94	+20	19·96	+6·86	3·2	−0·7	28	− 6
9. IRELAND, NORTH ...	66	21	*	*	*	*	495	− 20	297	− 47	99	+11	16·97	+4·10	3·0	−0·4	27	− 3
10. IRELAND, SOUTH ...	68	22	*	*	*	*	611	− 44	243	− 16	103	+23	21·28	+6·92	3·2	−0·6	28	− 5
11. ENGLISH CHANNEL ...	65	31	*	*	*	*	770	+ 32	38	− 71	90	+ 9	14·62	+3·69	3·6	−1·1	31	− 9

M.O., May 21, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* } No. 21. TWENTY-FIRST WEEK, SUNDAY, MAY 18TH, TO SATURDAY, MAY 24TH, 1913.

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I.—General Remarks.

Weather. Although there was not much rain over the Kingdom as a whole, and very little or none over a considerable area in England, the sky was more often cloudy or overcast than clear, and at the end of the week, when the conditions became brighter, a thick sea fog set in on several parts of the western and southern coasts. Thunder occurred at West Linton and Marchmont on the 18th, and at Stonyhurst on the 23rd, lightning at Oxford on the 21st.

Temperature was below the average except in England East and North-East, the greatest divergence being −2°·2 in Scotland West. The highest of the maxima were recorded on the 24th at nearly all stations, and ranged from 75° in England South-East, and 74° in England East to 63° in Scotland North and the English Channel. Early in the week the maxima were below 60° over the greater portion of the Kingdom, below 50° at a few northern stations. The lowest of the minima, which were mostly recorded on the 19th and 20th, varied from 27° in Scotland East (at Balmoral on the 20th), 30° in the Midland Counties (at Cheadle on the 18th), and 33° in England North-West to 40° in Ireland South, and to 46° in the English Channel. The lowest grass readings were 25° at West Linton, 26° at Wisley, 27° at Greenwich, Blackpool and Rauceby, and 28° at Cambridge, Cheadle and Hampstead. At all the stations reporting earth temperatures, the readings were below the average at a depth of 1 foot, and below at nearly all at a depth of 4 feet. At Great Yarmouth the difference from the normal at 1 foot was as much as −4°.

Mean Temperature of the Sea. Except at Lamlash and Seafield the water was colder than during the corresponding week of last year, and very generally its temperature was below the average. The means for the week varied from 56° at Seafield and about 54° at Eastbourne and Scilly to 46° at Ballantrae, Wick and Burnmouth.

Rainfall exceeded the normal in Scotland N. and W. and was slightly more in Ireland N., while in England N.W. it just equalled it. Elsewhere it was less, the aggregate fall being less than 0·1 in. at many stations in eastern, central and southern England. At Fort William on the 20th there was as much as 1·08 in. and at Stonyhurst on the 23rd 1·05 in.

Bright Sunshine was below the average in all districts except England S.E., but the deficit was slight in England E. and the Midland Counties. In Ireland S. the mean daily duration was only 3·8 hours, while in England S.E. it was 8·1 hours, and the respective percentages of the possible duration for those districts were 24 and 52.

Barometer and Wind. The relative distribution of pressure and the consequent direction of the wind underwent considerable modification during the period. During the early days pressure was high over the Atlantic between these Islands and the Azores region, and low over Norway, and as the gradient for North-Westerly winds was steep the wind blew a fresh to strong breeze from that point in many parts of the United Kingdom, and reached gale force in Scotland. By Tuesday the barometer had become high over the Bay of Biscay and France and low to the north-westward and northward of Scotland, and the Southerly to Westerly winds which prevailed until the end of the period were at first fresh to rather strong on various parts of the western and north-western coasts. By Friday evening pressure had become highest over France and the anticyclonic system subsequently extended its boundary to the more southern districts of England, and the pressure distribution became of a more stable type generally, while the winds fell light in force.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 83.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient	Moderate	Moderate	Deficient
	Rainfall ...	Heavy	Moderate	Light	Very light	Very light	Very light	Heavy	Moderate	Moderate	Moderate	Moderate	Light
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 12 weeks from March 2nd, 1913.	Warmth ...	1 * 5	1 * 5	4 * 2	4 * 2	3 * 2	3 * 2	2 * 4	3 * 3	2 * 2	1 * 3	1 * 3	2 * 4
	Rainfall ...	6 * 2	5 * 2	5 * 4	5 * 2	7 * 2	6 * 1	8 * 2	7 * 2	6 * 1	7 * 2	6 * 1	7 * 2
	Sunshine ...	3 * 2	2 * 2	1 * 4	1 * 6	1 * 5	1 * 4	1 * 7	1 * 4	0 * 6	2 * 4	1 * 5	0 *10

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(30207—24.) Wt. 196—786. 450. 5/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*54*	*22, 24*	*39*	*19, 20*	*51·0*	*43·0*	*46·8*	–	*34*	*0*	•	•	48·1	•	•	•	*7*	*1·18*	—	*4·7*	—	*27*	—	*Baltasound.*
a Islands .. *a Lerwick*	55	22nd	38	20th	51·0	42·4	46·4	+ 0·5	31	0	•	•	•	•	•	•	6	0·90	—	5·2	– 0·5	30	– 3	Deerness.
a Stornoway	55	22, 23	37	19th	52·0	42·0	46·7	– 1·3	33	0	•	•	•	•	•	•	7	0·78	+ 0·22	4·6	– 1·7	27	–10	Stornoway.
a Castlebay, Barra Isd.	*55*	*22nd*	*39*	*19th*	*51·3*	*43·3*	*47·2*	– *4·3*	*36*	*0*	•	•	•	•	•	•	*6*	*0·80*	—	*4·5*	—	*27*	—	*Castlebay.*
a Wick	59	21st	35	20th	53·3	40·7	46·6	– 1·4	38	4	•	•	•	•	•	•	6	0·59	+ 0·15	•	•	•	•	
b, Main- *p* Strathpeffer .. land.	63	24th	36	19th	57·1	41·9	49·0	– 0·1	49	0	•	•	•	•	•	•	5	0·40	– 0·04	5·3	– 0·3	32	– 2	Strathpeffer.
p Glencarron ..	54	21st	34	19th	50·7	39·5	44·8	– 3·4	30	7	•	•	•	•	•	•	7	2·61	+ 1·61	•	•	•	•	
p Fort Augustus..	59	21, 23	37	19th	54·9	41·6	47·9	– 1·3	43	1	•	•	•	•	•	•	6	0·80	+ 0·31	3·6	– 0·8	22	– 5	Fort Augustus.
p Fort William ..	59	21st	37	20th	54·0	42·0	47·6	– 2·9	39	0	•	•	•	•	•	•	6	2·12	+ 1·29	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	67	24th	38	19th	58·1	41·7	49·4	– 0·3	53	1	1	25	49·7	–1·8	46·6	–0·8	—	—	—	4·7	—	28	—	Crathes S.
a Nairn .. .. S	63	21st	35	20th	58·0	38·6	47·7	– 2·3	54	10	•	•	•	•	•	•	7	0·46	0·00	*5·2*	—	*31*	—	*Gordon Castle.*
a Aberdeen ..	61	22, 24	37	20th	55·9	42·0	48·5	– 0·6	46	0	•	•	•	•	45·8	–0·9	5	0·18	– 0·20	5·2	—	31	—	Nairn.
a Balmoral ..	63	21, 23	27	20th	59·3	34·7	46·3	– 0·9	61	20	3	24	•	•	•	•	5	0·25	– 0·21	5·2	– 0·9	31	– 6	Aberdeen.
p Crieff	60	24th	35	19th	56·4	40·4	47·9	– 3·3	48	4	•	•	•	•	•	•	2	0·06	– 0·47	•	•	•	•	Balmoral.
a Leith .. .. S	65	24th	38	19th	58·7	43·1	50·4	– 0·4	59	0	•	•	•	•	•	•	5	0·44	– 0·14	5·6	—	34	—	Balruddery.
p West Linton .. S	62	24th	30	19, 20	55·4	37·7	46·0	– 1·9	46	12	4	25	•	•	•	•	4	0·25	– 0·15	•	•	•	•	
p Marchmont .. S	65	24th	33	20th	56·0	40·3	47·7	– 1·1	47	5	1	29	48·4	–3·3	•	•	5	0·35	—	*4·0*	—	*24*	—	*West Linton.*
																	4	0·32	– 0·22	5·0	– 0·9	31	– 5	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	68	24th	36	20th	60·4	42·0	50·7	+ 1·4	61	0	1	30	47·5	–4·9	46·4	–2·0	3	0·24	– 0·24	6·0	—	37	—	Cockle Park.
a Shields	67	24th	35	19th	59·0	41·4	49·7	+ 0·2	56	2	•	•	•	•	•	•	5	0·30	– 0·10	•	•	•	•	
p Durham	67	24th	34	20th	58·7	42·4	50·1	0·0	57	0	0	34	•	•	•	•	4	0·20	– 0·22	5·1	– 0·5	31	– 3	Durham.
a, North .. *p* Rounton	68	24th	35	20th	58·9	42·4	50·2	+ 0·9	57	0	1	29	51·1	•	•	•	3	0·15	– 0·29	•	•	•	•	Rounton.
a West Witton	*64*	*24th*	*34*	*20th*	*57·0*	*42·1*	*49·1*	—	*50*	*0*	0	31	49·9	•	•	•	*5*	*0·18*	—	•	•	•	•	*West Witton.*
p Scarborough	70	23rd	39	20th	60·7	45·0	52·4	+1·9	73	0	•	•	•	•	45·7	•	4	0·40	– 0·03	5·0	—	31	—	Scarborough.
p York	67	24th	38	19, 20	59·3	44·7	51·6	– 0·7	67	0	•	•	48·7†	–0·9	48·7†	•	4	0·40	– 0·03	5·0	—	31	—	York.
											•	•	51·8	–0·9	49·5	+0·7	5	0·16	– 0·29	4·0	– 1·8	25	–11	
a Spurn Head	65	24th	41	19th	58·3	45·4	51·5	+ 0·6	67	0	0	32	50·7	–2·7	48·0	0·0	—	—	—	3·3	—	*21*	—	*Hull.*
b, South .. *a* Lincoln	72	24th	37	19th	61·6	45·3	53·0	+ 0·2	77	0	•	•	•	•	•	•	3	0·16	– 0·20	*5·0*	—	*31*	—	*Spurn Head.*
a Fulbeck	73	24th	36	19th	61·0	44·1	52·0	+ 0·1	70	0	•	•	51·5	–2·7	48·8	–0·6	1	0·09	– 0·33	•	•	•	•	Lincoln.
											2	27	54·3	–3·6	49·4	–1·0	1	0·04	– 0·40	7·1	—	44	—	Rauceby.
											•	•	•	•	•	•	—	—	—	5·5	—	34	—	Skegness.
3. ENGLAND, E.											0	33	54·7	–1·6	51·6	+0·1	—	—	—	*6·2*	—	*39*	—	*Lowestoft.*
p Cromer	70	24th	40	19, 20	60·7	45·7	52·3	+ 1·7	76	0	•	•	•	•	•	•	2	0·15	—	5·4	—	34	•	Cromer.
p Little Massingham ..	71	24th	37	19th	60·3	44·3	51·8	– 0·4	69	0	0	33	•	•	•	•	1	0·04	– 0·40	5·8	– 0·9	36	– 6	Lit. Massingham.
a, North .. *a* Yarmouth	69	24th	38	19th	61·9	44·9	52·9	+ 1·7	76	0	•	•	54·3	–4·0	52·1	–1·3	1	0·02	– 0·37	5·6	—	35	—	Yarmouth.
a Norwich	73	24th	37	20th	63·0	44·7	53·3	+ 1·6	89	0	0	33	54·7	•	•	•	0	0·00	—	*6·3*	—	*40*	—	*Norwich.*
p Geldeston	74	24th	36	20th	63·1	44·1	53·0	+ 1·1	77	0	•	•	•	•	•	•	1	0·03	– 0·37	5·9	– 1·2	37	– 8	Geldeston.
p Cambridge	72	24th	34	20th	62·1	44·4	52·7	– 0·4	75	0	2	28	54·5	–0·8	51·8	–0·2	1	0·02	– 0·41	7·3	+ 0·7	46	– 4	Cambridge.
a Felixstowe	*69*	*24th*	*40*	*20th*	*61·9*	*44·4*	*52·6*	+ *0·4*	*74*	*0*	•	•	•	•	•	•	*1*	*0·02*	—	*6·7*	—	*42*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	68	23, 24	40	19th	61·6	46·1	53·4	+ 1·7	80	0	0	31	54·5	–1·0	52·8	+0·2	0	0·00	—	6·7	—	42	—	Clacton.
a Rothamsted	70	24th	35	20th	61·7	43·7	52·2	+ 0·1	71	0	•	•	•	•	•	•	2	0·06	– 0·39	7·4	+ 0·9	47	+ 6	Rothamsted.
a Shoeburyness	*72*	*24th*	*40*	*19th*	*62·7*	*46·0*	*53·9*	– *0·3*	*83*	*0*	0	31	56·1	–1·7	•	•	*0*	*0·00*	– *0·27*	*8·0*	—	*51*	—	*Southend.*
p Tottenham	73	24th	40	19th	63·0	47·3	54·7	+ 1·3	89	0	0	36	•	•	51·8	–0·3	0	0·00	—	7·5	—	48	—	Tottenham.
4. MIDLAND COUNTIES.											0	34	50·9	–2·7	46·9	–0·1	—	—	—	*4·7*	—	*29*	—	*Huddersfield.*
a Harrogate	63	24th	35	19th	57·1	42·9	49·6	– 0·7	53	0	0	31	48·9	–1·7	48·2	–0·4	3	0·21	– 0·28	5·2	—	32	—	Harrogate.
a Bawtry	73	24th	39	19, 20	61·4	45·1	52·8	+ 0·3	76	0	1	30	51·9	•	49·9	•	1	0·09	– 0·34	5·6	0·0	35	0	Worksop.
p Buxton	*64*	*24th*	*36*	*19th*	*54·3*	*42·7*	*48·2*	– *0·4*	*43*	*0*	0	34	46·6	–4·6	46·0	–0·9	*6*	*0·56*	– *0·16*	*3·6*	—	*23*	—	*Buxton.*
a, East .. *a* Nottingham	72	24th	37	19th	60·7	44·1	51·9	– 0·5	69	0	1	30	52·7	–2·1	49·1	–0·7	2	0·03	– 0·39	5·3	—	33	—	Nottingham.
p Birmingham, Edgbsn.	67	24th	37	19th	58·9	44·9	51·5	– 0·6	67	0	1	29	48·0	–2·7	46·9	–0·3	3	0·10	– 0·38	5·0	—	31	—	Birmingham
a Raunds	73	24th	35	19th	63·3	43·1	52·6	+ 0·2	74	0	0	31	53·5	•	49·7	•	1	0·04	—	•	•	•	•	Raunds.
p Oxford	72	24th	38	19th	61·4	45·1	52·8	– 0·5	76	0	0	32	•	•	•	•	4	0·17	– 0·23	6·3	– 0·1	40	– 1	Oxford.
											0	33	50·2	–2·2	47·2	–0·3	—	—	—	5·9	—	37	—	Sheffield.
a Cheadle	66	24th	30	18th	56·1	43·7	49·5	– 1·3	53	0	1	28	•	•	•	•	2	0·12	– 0·38	•	•	•	•	Cheadle.
p Shrewsbury	71	24th	35	19th	60·6	44·6	52·1	– 0·9	71	0	0	31	•	•	•	•	2	0·04	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	71	24th	38	19th	60·3	45·1	52·2	– 0·9	71	0	0	33	•	•	•	•	2	0·12	– 0·36	•	•	•	•	Hereford.
a Cirencester	69	24th	36	19th	60·0	42·1	50·5	– 1·2	60	0	0	32	51·3	•	49·1	•	3	0·22	– 0·28	7·3	+ 0·6	46	+ 4	Cirencester.
a Bath	71	24th	38	19th	61·4	45·6	53·0	– 0·4	77	0	•	•	54·6	–2·1	51·6	–1·2	3	0·14	– 0·31	6·9	—	44	—	Bath.
5. ENGLAND, S.E.											0	33	56·1	+0·3	52·4	+0·1	—	—	—	•	•	•	•	Canterbury
p Kew	72	24th	40	19, 20	62·6	46·9	54·3	+ 0·5	86	0	2	29	54·4	–1·3	50·9	–0·1	1	0·01	– 0·38	8·1	+ 1·5	52	+10	Kew.
a Marlborough	71	24th	34	19th	61·3	42·6	51·4	+ 1·0	66	0	1	29	•	•	50·2	•	3	0·13	– 0·31	5·9	– 0·2	38	– 1	Marlborough.
a Margate	69	24th	40	20th	61·6	45·7	53·2	+ 0·5	78	0	0	31	52·6	–2·9	50·6	–0·8	2	0·14	– 0·21	6·8	+ 0·4	43	+ 2	Margate.
a Wisley, Surrey ..	75	24th	38	19th	63·4	45·3	53·8	– 0·1	83	0	3	26	54·9	–1·0	51·3	–0·6	1	0·05	—	8·7	—	55	—	Wisley
											0	36	56·6	–0·9	52·4	+0·2	—	—	—	8·4	—	54	—	Worthing.
p Salisbury (Wilton) ..	74	24th	36	19th	62·6	43·9	52·7	– 1·2	75	0	0	33	56·6	•	•	•	3	0·03	– 0·42	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•			•	•								Tunbridge Wells.
a Dungeness	61	18th	38	19th	59·3	45·9	52·2	– 0·5	71	0	•	•	•	•	•	•	2	0·12	– 0·16	8·4	—	54	—	Littlestone.
p Hastings..	63	24th	41	19th	59·1	46·6	52·5	– 0·7	74	0	0	37	56·1	•	52·2	•	2	0·03	– 0·33	*8·3*	+ *0·6*	*53*	+ *4*	*Hastings.*
p Southampton	70	24th	43	18, 19	62·9	47·6	54·8	– 0·2	90	0	0	38	•	•	•	•	1	0·03	– 0·41	8·5	+ 1·3	54	+ 9	Southampton
a Ventnor	64	24th	44	18, 19	59·7	47·4	53·2	– 0·7	78	0	•	•	•	•	•	•	1	0·03	– 0·36	9·1	+ 1·8	58	+11	Ventnor.
											0	38	56·8	–1·1	53·4	–2·4	—	—	—	*9·2*	—	*59*	—	*Portsmouth.*
											•	•	54·7	•	52·6	•	—	—	—	8·8	+ 1·4	56	+ 9	Eastbourne
											•	•	54·5	•	52·3	•	—	—	—	*8·7*	—	*55*	—	*Bournemouth.*
LONDON.											0	34	•	•	52·9	•	—	—	—	*7·3*	+ *0·1*	*46*	+ *1*	*Brighton.*
a Westminster	*73*	*24th*	*39*	*19th*	*63·4*	*47·0*	*54·7*	+ *0·6*	*89*	*0*	0	34	•	•	•	•	*1*	*0·02*	– *0·38*	*7·7*	+ *2·2*	*49*	+*14*	*Westminster.*
a Greenwich	*75*	*24th*	*37*	*20th*	*66·0*	*45·4*	*55·1*	+ *0·8*	*92*	*0*	2	27	•	•	•	•	*2*	*0·02*	– *0·38*	*7·7*	+ *1·6*	*49*	+*10*	*Greenwich.*
a Hampstead	*72*	*24th*	*37*	*19th*	*61·7*	*44·6*	*53·6*	—	*74*	*0*	2	28	•	•	•	•	*1*	*0·05*	—	*8·3*	—	*53*	—	*Hampstead.*
a Camden Square ..	*78*	*24th*	*39*	*19th*	*67·3*	*46·3*	*56·2*	—	*99*	*0*	0	35	•	•	•	•	*1*	*0·05*	—	*7·6*	—	*48*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	60	24th	38	19, 20	54·4	42·6	48·2	– 3·0	43	0	•	•	•	•	•	•	7	2·13	+ 1·50	•	•	•	•	
p Glasgow	61	24th	38	19th	55·3	44·0	49·3	– 1·7	51	0	0	33	•	•	•	•	7	0·64	+ 0·06	4·3	– 1·1	26	– 7	Glasgow.
p Rothesay .. S	60	21st	38	19, 20	55·4	43·0	48·8	– 2·3	48	0	•	•	•	•	48·3	–0·5	7	1·56	+ 0·91	•	•	•	•	
a Kilmarnock ..	63	24th	37	19, 20	56·4	42·0	48·8	– 2·4	48	0	•	•	•	•	•	•	5	0·63	—	*4·8*	—	*29*	—	*Kilmarnock.*
a Colmonell ..	65	24th	38	20th	57·4	44·0	50·3	– 1·1	58	0	0	34	•	•	•	•	5	0·98	+ 0·41	•	•	•	•	
p Dumfries	65	24th	36	19th	56·6	43·0	49·4	– 2·6	52	0	1	30	52·1	•	50·0	•	6	0·55	– 0·02	*5·3*	—	*33*	—	*Dumfries.*
p Cally, Gatehouse ..	61	24th	36	20, 21	56·3	41·1	48·2	– 3·0	47	3	•	•	•	•	•	•	6	0·73	+ 0·03	•	•	•	•	
b I. OF MAN																								
p Douglas	63	24th	39	19th	54·4	44·6	49·2	– 1·6	50	0	0	35	•	•	•	•	6	0·41	– 0·16	5·1	– 2·2	32	–14	Douglas.
											1	30	50·3	–2·7	47·3	–0·1	—	—	—	*3·7*	—	*23*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											0	36	•	•	•	•	—	—	—	4·4	—	28	—	Hoylake.
p Aspatria	65	24th	38	19th	56·9	43·4	49·8	– 0·7	55	0	0	32	50·8	•	47·9	•	5	0·53	– 0·03	4·8	—	29	—	Aspatria.
p Newton Rigg	67	24th	33	20th	58·0	42·0	49·5	– 0·2	53	0	0	32	50·9	–2·2	47·5	–0·7	6	0·24	– 0·30	5·4	– 1·1	33	– 7	Newton Rigg.
p Stonyhurst	63	24th	37	19th	54·4	43·9	48·8	– 2·6	48	0	1	29	•	•	•	•	7	1·97	+ 1·34	2·9	– 3·5	18	–22	Stonyhurst.
p Blackpool	61	24th	39	20th	55·8	45·9	50·5	– 1·2	60	0	1	27	50·0	•	47·9	•	6	0·42	– 0·07	4·5	– 2·1	28	–13	Blackpool.
p Manchester (Whit. Pk.)	67	24th	41	18, 19	57·4	46·3	51·5	– 1·8	67	0	•	•	•	•	•	•	5	0·52	+ 0·09	*2·8*	– *2·3*	*18*	–*14*	*Whit. Park.*
a Liverpool (Bidston) ..	65	24th	42	19th	57·4	46·4	51·6	– 0·5	67	0	•	•	•	•	•	•	4	0·32	– 0·13	*4·6*	—	*29*	—	*Liverpool.*
a Hawarden Bridge ..	69	24th	40	18th	60·3	46·9	53·2	– 0·0	78	0	0	36	53·9	–3·1	50·9	–2·0	3	0·14	– 0·27	*4·6*	—	*29*	—	*Southport.*
											0	39	51·5	–2·2	50·0	+0·3	—	—	—	*3·3*	—	*21*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	65	24th	42	18, 19	57·7	47·0	52·0	– 0·3	70	0	•	•	•	•	•	•	5	0·29	– 0·14	4·5	– 2·3	28	–14	Llandudno.
a Holyhead	57	24th	44	19, 20	54·4	46·7	50·3	– 1·1	58	0	•	•	•	•	•	•	3	0·22	– 0·21	*4·9*	—	*31*	—	*Holyhead.*
p Bettws-y-Coed ..	60	22nd	36	18-20	55·6	?	?,	?	?	?	0	35	50·1	–2·2	48·0	–0·7	3	0·57	—	4·7	—	29	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	4·3	—	27	—	Aberdovey.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				4·6	—	29	—	Aberystwyth.
a Llangammarch Wells	67	24th	39	18, 19	56·6	44·4	50·1	− 0·7	57	0	2	29	51·0	−2·1	48·2	−0·5	6	0·50	—	4·4	—	28	—	Llangammarch
a Pembroke	54	22nd	45	19th	53·0	47·3	50·0	− 1·5	56	0	•	•	•	•	•	•	3	0·15	− 0·26	3·8	− 3·5	24	−22	Pembroke.[Wells
p Cardiff	69	24th	39	19th	58·4	45·6	51·6	− 2·0	67	0	1	29	53·6	−2·7	50·2	−0·7	3	0·30	− 0·25	*6·1*	—	*39*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	71	24th	43	19th	60·6	47·1	53·5	− 0·5	81	0	0	38	•	•	•	•	4	0·30	− 0·20	*6·9*	—	*44*	—	*Clifton.*
a Shaftesbury	69	24th	39	18, 19	59·9	44·4	51·7	+ 0·4	68	0	•	•	53·3	•	49·9	•	1	0·10	− 0·38	•	•	•	•	Shaftesbury.
a Arlington	68	24th	42	19th	56·1	44·4	49·9	− 1·3	55	0	•	•	•	•	•	•	3	0·57	− 0·06	•	•	•	•	Arlington.
a Newquay	*63*	*24th*	*47*	*18, 19*	*56·0*	*48·4*	*52·0*	− *0·5*	*70*	*0*	•	•	54·6	•	•	•	*4*	*0·11*	− *0·21*	4·7	− 2·6	31	−16	Newquay.
a Cullompton	71	24th	39	18, 19	62·3	45·7	53·5	+ 0·4	81	0	0	33	55·2	•	•	•	4	0·18	− 0·29	6·1	− 0·6	39	− 4	Cullompton.
a Portland	56	18, 23	47	18th	54·7	48·7	51·5	− 1·3	67	0	•	•	•	•	•	•	1	0·02	—	*6·9*	—	*45*	—	*Weymouth.*
p Plymouth	62	23rd	45	19th	56·9	48·2	52·3	− 1·7	72	0	0	39	56·0	−0·8	•	•	3	0·04	− 0·42	4·6	− 2·7	30	−17	Plymouth.
p Falmouth	60	23rd	44	22nd	56·3	48·4	52·1	− 0·9	71	0	•	•	•	•	•	•	3	0·22	− 0·27	4·6	− 3·2	30	−20	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	63	24th	40	18, 19	54·0	44·4	48·9	− 1·3	48	0	•	•	•	•	•	•	7	0·38	− 0·09	•	•	•	•	• •
a Blacksod Point ..	58	24th	42	19th	54·3	45·9	49·9	− 1·8	55	0	•	•	•	•	•	•	7	0·97	+ 0·37	•	•	•	•	• •
p Markree Castle ..	68	24th	40	19th	57·9	46·0	51·6	+ 0·8	67	0	0	37	52·7	•	47·8	•	7	0·89	+ 0·29	4·4	− 1·7	27	−11	Markree Castle.
a Birr Castle	65	24th	40	18, 19	58·9	45·1	51·6	− 0·4	67	0	•	•	•	•	•	•	5	0·47	− 0·03	*4·1*	− *1·9*	*26*	−*12*	*Birr Castle.*
b, East .. *p* Armagh	69	24th	37	19th	58·7	45·0	51·4	+ 0·3	66	0	0	33	53·1	−1·7	49·4	−1·3	6	0·40	− 0·18	4·2	− 1·8	26	−11	Armagh.
a Donaghadee	68	24th	38	19th	58·1	44·7	51·0	0·0	63	0	•	•	•	•	•	•	6	0·38	− 0·14	•	•	•	•	• •
											0	36	53·1	−1·5	50·3	−1·0	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	33	•	•	•	•	—	—	—	4·4	− 2·5	28	−15	Phœnix Park.
a, East .. *p* Dublin, City	67	24th	41	19th	60·7	47·9	53·9	+ 0·4	83	0	0	39	•	•	•	•	3	0·24	− 0·23	•	•	•	•	Dublin City.
a Kilkenny	66	23rd	40	19th	60·1	46·7	53·0	+ 1·0	77	0	•	•	•	•	•	•	4	0·30	− 0·20	•	•	•	•	• •
a Waterford	64	23rd	41	19th	57·6	46·3	51·6	− 1·1	67	0	•	•	•	•	•	•	3	0·27	− 0·27	•	•	•	•	• •
a Birr Castle	65	24th	40	18, 19	58·9	45·1	51·6	− 0·4	67	0	•	•	•	•	•	•	5	0·47	− 0·03	4·1	− 1·9	26	−12	Birr Castle.
a Foynes	63	24th	40	18th	56·9	44·8	50·5	− 2·6	60	0	•	•	•	•	•	•	6	0·59	+ 0·09	•	•	•	•	• •
b, West .. *a* Cahir	67	24th	41	19, 22	60·0	45·4	52·3	− 0·2	72	0	•	•	•	•	•	•	5	0·24	—	•	•	•	•	• •
a Killarney	67	24th	45	18, 19	59·9	48·4	53·8	+ 1·5	83	0	•	•	•	•	•	•	5	0·47	− 0·20	•	•	•	•	• •
a Valencia	63	24th	45	18th	56·0	48·1	51·8	− 0·9	69	0	•	•	•	•	•	•	6	0·53	− 0·15	3·0	− 3·8	19	−24	Valencia.
a Roche's Point	59	23rd	45	18, 19	55·4	47·7	51·3	− 1·4	65	0	•	•	•	•	•	•	6	0·53	− 0·02	3·5	—	22	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	57	21, 22	46	19th	55·6	48·0	51·6	− 1·8	67	0	•	•	•	•	•	•	4	0·05	− 0·32	3·3	− 4·5	21	−29	Scilly.
a Jersey, St. Aubins ..	63	21, 24	47	19th	58·4	48·7	53·3	− 1·3	79	0	•	•	•	•	•	•	3	0·09	− 0·36	6·0	− 2·1	39	−14	St. Heliers.
a Guernsey (Villa Carey)	63	24th	47	18, 19, 22	58·6	47·7	52·8	− 1·0	76	0	0	42	55·4	−1·6	52·4	−0·7	3	0·07	− 0·37	6·3	− 2·1	41	−14	Guernsey.*

Additional Sunshine Means:—*Bognor, 9·3 hrs. 59 °/₀; Ramsgate, 7·5 hrs. 48 °/₀; Rhyl, 5·1 hrs. 32 °/₀; Salcombe, 5·6 hrs. 36 °/₀; Tenby, 4·2 hrs. (−3·2) 26 °/₀ (−20°/₀); Torquay, 6·6 hrs. (−0·9) 42 °/₀ (−6 °/₀).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, May 24th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	47	47	47·0	+0·1	SCOTLAND, W. ..	Lamlash	51	47	49·0	−0·5
	Kirkwall	49	47	48·2	−1·3		Ballantrae	47	45	46·1	−4·0
	Wick	47	45	45·7	−2·1	ENGLAND, N.W. ..	Port Erin	52	49	49·2	−0·1
SCOTLAND, E. ..	Cromarty	52	46	48·5	−1·3		Newquay	53	51	52·0	−2·1
	Pennan Bay	52	47	49·1	−1·0	ENGLAND, S.W. ..	Scilly	54	53	53·7	—
	Aberdeen, Cove Bay	—	—	—	—		Plymouth‡	54	52	53·1	+0·6
ENGLAND, N.E. ..	Burnmouth, Berwick	47	45	45·8	−0·6		Salcombe	56	52	53·2	+0·9
	Scarborough	53	49	50·8	+2·6	IRELAND, N.W. ..	Sheephaven	51	49	50·5	−1·9
ENGLAND, E. ..	Shipwash Lightship	54	50	52·2	+0·8		Teelin	52	48	51·0	−3·5
ENGLAND, S.E. ..	Eastbourne‡	55	54	54·1	−0·5	IRELAND, S.W. ..	Cleggan	53	49	50·8	−1·9
							Seafield	57	52	55·7	+1·1
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for tha week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, fo that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-FIRST WEEK—May 18th to May 24th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Accumulated Number of Day-Degrees. Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Below 42°	Accumulated Number of Day-Degrees. Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	63	34	53·3	41·4	47·0	− 1·7	38	− 14	2	− 2	6	+ 2	1·17	+0·60	4·7	−0·9	29	− 5
Eastern.																		
1. SCOTLAND, EAST ...	67	27	57·2	39·8	48·0	− 1·6	51	− 8	6	+ 2	5	+ 2	0·29	−0·22	5·1	−1·1	32	− 6
2. ENGLAND, N.E.	73	34	59·8	43·6	51·2	+ 0·5	64	+ 2	0	− 1	3	0	0·19	−0·21	5·5	−1·0	34	− 6
3. ENGLAND, EAST ...	74	34	61·9	45·0	53·0	+ 0·3	77	0	0	− 1	1	− 2	0·04	−0·40	6·5	−0·4	41	− 3
4. MIDLAND COUNTIES ...	73	30	60·1	44·2	51·7	− 0·9	68	− 9	0	− 2	2	− 1	0·12	−0·40	5·9	−0·1	37	− 1
5. ENGLAND, S.E.	75	34	61·4	45·8	53·1	− 0·9	78	− 7	0	0	2	− 1	0·06	−0·38	8·1	+1·2	52	+ 8
Western.																		
6. SCOTLAND, WEST ...	65	36	55·8	43·0	49·0	− 2·2	49	− 18	0	− 2	6	+ 2	0·95	+0·31	4·7	−1·9	32	− 9
7. ENGLAND, N.W.	69	33	56·9	45·4	50·8	− 1·3	62	− 10	0	− 1	5	+ 2	0·52	0·00	4·4	−2·2	28	−14
8. ENGLAND, S.W.	71	39	57·5	46·4	51·6	− 1·5	67	− 12	0	− 1	3	0	0·24	−0·26	4·7	−2·1	30	−13
9. IRELAND, NORTH ...	69	37	57·0	45·2	50·7	− 0·9	61	− 7	0	− 1	6	+ 2	0·58	+0·04	4·3	−2·1	27	−13
10. IRELAND, SOUTH ...	67	40	58·4	46·7	52·2	− 0·8	71	− 6	0	0	5	+ 2	0·40	−0·17	3·8	−3·1	24	−19
11. ENGLISH CHANNEL ...	63	46	57·5	48·1	52·6	− 1·7	74	− 12	0	0	3	0	0·07	−0·42	5·2	−2·8	34	−18

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 12 Weeks, March 2nd to May 24th, 1913.

0. SCOTLAND, NORTH ...	68	21	*	*	*	*	267	− 61	198	− 25	57	+ 3	11·81	+ 2·49	3·8	−0·6	27	− 4
Eastern.																		
1. SCOTLAND, EAST ...	68	16	*	*	*	*	312	− 84	259	+ 19	53	+ 8	8·16	+ 2·37	4·4	−0·4	32	− 3
2. ENGLAND, N.E.	73	20	*	*	*	*	396	− 3	148	− 26	48	+ 7	7·00	+ 2·34	4·2	−0·9	30	− 7
3 ENGLAND, EAST ...	74	24	*	*	*	*	525	+ 12	94	− 88	46	+ 7	5·28	+ 0·79	4·4	−0·9	33	− 6
4. MIDLAND COUNTIES ...	73	22	*	*	*	*	472	− 55	130	− 66	51	+13	8·77	+ 3·74	3·9	−0·9	29	− 7
5. ENGLAND, S.E.	75	23	*	*	*	*	532	− 22	59	− 63	50	+13	6·91	+ 2·21	4·6	−0·7	34	− 5
Western.																		
6. SCOTLAND, WEST ...	65	21	*	*	*	*	386	− 41	130	− 32	58	+12	11·62	+ 3·26	4·0	−1·0	29	− 7
7. ENGLAND, N.W.	69	21	*	*	*	*	418	− 30	105	− 30	58	+16	10·20	+ 4·08	4·1	−0·8	30	− 6
8. ENGLAND, S.W.	71	20	*	*	*	*	475	− 50	69	− 33	56	+15	11·69	+ 5·09	4·2	−1·1	31	− 9
9. IRELAND, NORTH ...	69	25	*	*	*	*	405	− 53	136	+ 8	63	+13	10·27	+ 3·39	4·4	−0·3	32	− 3
10. IRELAND, SOUTH ...	68	23	*	*	*	*	483	− 63	98	+ 4	64	+19	11·89	+ 4·51	4·5	−0·7	33	− 5
11. ENGLISH CHANNEL ...	65	31	*	*	*	*	579	− 26	2	− 28	53	+10	7·97	+ 2·46	4·6	−1·8	34	−13

THE YEAR.—Aggregates, &c., for the Period of 21 Weeks, December 29th, 1912, to May 24th, 1913.

0. SCOTLAND, NORTH ...	68	21	*	*	*	*	335	− 53	424	−129	100	0	21·09	+0·81	2·6	−0·5	23	− 4
Eastern.																		
1. SCOTLAND, EAST ...	68	11	*	*	*	*	366	− 98	601	− 16	90	+10	13·02	+2·24	3·0	−0·6	26	− 5
2. ENGLAND, N.E.	73	18	*	*	*	*	477	− 2	406	− 69	83	+ 9	10·88	+2·83	3·0	−0·8	26	− 7
3. ENGLAND, EAST ...	74	20	*	*	*	*	632	+ 29	303	−218	79	+ 6	8·83	+0·97	3·4	−0·6	29	− 6
4. MIDLAND COUNTIES ...	73	13	*	*	*	*	583	− 48	392	−140	85	+14	13·56	+4·35	2·8	−0·8	24	− 7
5. ENGLAND, S.E.	75	22	*	*	*	*	671	− 1	221	−160	80	+11	11·87	+2·72	3·5	−0·5	30	− 4
Western.																		
6. SCOTLAND, WEST ...	65	17	*	*	*	*	486	− 30	323	−101	96	+10	20·56	+3·35	2·7	−0·9	24	− 6
7. ENGLAND, N.W.	69	10	*	*	*	*	525	− 17	298	− 88	93	+15	16·08	+4·29	3·0	−0·6	26	− 5
8. ENGLAND, S.W.	71	19	*	*	*	*	638	− 38	221	− 80	97	+20	20·20	+6·60	3·2	−0·8	28	− 7
9. IRELAND, NORTH ...	69	21	*	*	*	*	556	− 27	297	− 48	105	+13	17·55	+4·14	3·1	−0·4	27	− 4
10. IRELAND, SOUTH ...	68	22	*	*	*	*	682	− 50	243	− 16	108	+25	21·68	+6·75	3·3	−0·6	28	− 6
11. ENGLISH CHANNEL ...	65	31	*	*	*	*	844	+ 20	38	− 71	93	+ 9	14·69	+3·27	3·7	−1·1	31	−10

M.O., May 28, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 9, 1 and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 22. TWENTY-SECOND WEEK, SUNDAY, MAY 25TH, TO SATURDAY, MAY 31ST, 1913.

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I.—General Remarks.

Weather. The general condition varied a good deal, but as a whole it was fine and dry over England and the east of Scotland, rather showery in Ireland and the west and north of Scotland. Thunderstorms were experienced in many localities, and were most general on the 29th and 30th. Locally they were accompanied by heavy hail. A good deal of sea fog prevailed at times on the west and south-west coasts.

Temperature exceeded the normal except in Ireland North, where it was a trifle below it. In England East the excess amounted to as much as 8°·6, and in the Midland Counties and England South-East to nearly 6°, but in Scotland West and Ireland South it was less than 1°. Over England and Ireland the highest of the maxima were recorded very generally on the 26th and 27th, but over North Britain they occurred more commonly on the 30th. The actual readings ranged from 81° in England South-East, the Midland Counties, and England East and South-West to 73° in Scotland West and Ireland South, to 72° in Scotland North, and to 67° in Ireland North. The lowest of the minima were recorded on rather irregular dates, and ranged from 34° in Scotland East to 46° in England East. The lowest grass readings were 29° at Crathes and Markree Castle, and 31° at Balmoral and Glasgow. The temperature of the soil at a depth of 1 ft. was above the normal over the greater part of the Kingdom, but at a depth of 4 ft. it was generally below it.

Mean Temperature of the Sea was lower than during the corresponding week of last year, the figure varying from 57°·5 at Seafield and about 57° at Eastbourne and Salcombe to 46° at Wick. As a whole the temperature differed little from the average, but was as much as 6° above it at Scarborough.

Rainfall was less than the average in most parts of Britain, but slightly in excess in England East, as well as in Scotland North and in Ireland. At Felixstowe and Clacton-on-Sea more than an inch fell on the 27th, and at Southampton there was an inch on the 29th.

Bright Sunshine was above the normal in England East and South-East and the Midland Counties, and equal to it in England South West and the English Channel; elsewhere it was below it. The percentage of the possible duration ranged from 64 in England South-East and 55 in England East to 31 in Scotland East and over Ireland, and to 24 in Scotland North. In England South-East the daily duration was as high as 10·2 hours.

Barometer and Wind. During the early days of the week an anticyclonic system extended over these Islands from the Continent and the wind was generally light and variable over the southern districts and South-West to West in the north. By Thursday, however, a shallow depression had appeared over England, and subsequently, while depressions from the Atlantic spread over the Kingdom bringing a South-Westerly to Westerly current of wind, local irregularities of pressure were developed over England, causing thunderstorms in many localities. On Friday the Southerly wind increased to the force of a gale for a time in some of the western and south-western districts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 87.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Moderate	Unusual	Unusual	Moderate	Moderate	Unusual
	Rainfall ...	Moderate	Light	Moderate	Moderate	Light	Moderate	Moderate	Light	Moderate	Moderate	Moderate	Light
	Sunshine ...	Scanty	Scanty	Moderate	Abundant	Abundant	Abundant	Scanty	Moderate	Moderate	Scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 13 weeks from March 2nd, 1913.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

PAST SEASONS.

SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9

(30299—24.) Wt. 196—786. 450. 6/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
0. SCOTLAND, N.	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
p Baltasound .. S	*57*	*31st*	*43*	*28th*	*54·1*	*45·5*	*49·5*	—	*53*	*0*	•	•	50·5	•	•	•	*6*	*0·71*	—	*5·5*	—	*31*	—	*Baltasound.*
a Islands .. *a* Lerwick	55	29th	45	25th	53·6	46·6	49·9	+ 3·2	55	0	•	•	•	•	•	•	5	1·08	—	4·9	- 0·6	28	- 4	Deerness.
a Stornoway	58	25th	44	27th	55·0	47·0	50·8	+ 1·8	62	0	•	•	•	•	•	•	6	0·93	+ 0·38	3·2	- 3·0	19	-18	Stornoway.
a Castlebay, Barra Isd. ..	*56*	*30th*	*45*	*27th*	*53·4*	*45·9*	*50·0*	*- 2·5*	*56*	*0*	•	•	•	•	•	•	*6*	*0·85*	—	*4·7*	—	*28*	—	*Castlebay.*
a Wick	64	25th	40	27th	58·0	45·4	51·3	+ 2·2	65	0	•	•	•	•	•	•	4	0·28	- 0·14	•	•	•	•	•
b, Main- *p* Strathpeffer ..	70	30th	43	27, 28	61·7	47·3	54·1	+ 3·6	85	0	•	•	•	•	•	•	5	0·16	- 0·27	4·2	- 1·3	25	- 7	Strathpeffer.
land. *p* Glencarron ..	70	30th	41	27th	57·6	45·8	51·4	+ 1·9	66	0	•	•	•	•	•	•	7	0·70	- 0·28	•	•	•	•	•
p Fort Augustus..	71	30th	41	27th	60·7	47·1	53·5	+ 3·0	81	0	•	•	•	•	•	•	6	0·36	- 0·12	4·1	- 0·4	24	- 2	Fort Augustus.
p Fort William ..	72	30th	40	29th	61·3	45·6	53·0	+ 1·4	77	0	•	•	•	•	•	•	6	0·69	- 0·13	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle..	71	30th	43	26th	63·1	48·1	55·2	+ 4·2	92	0	1	29	53·8	+0·9	48·0	-0·7	—	—	—	5·3	—	31	—	Crathes S.
a Nairn	74	30th	36	28th	63·1	44·7	53·4	+ 2·2	80	0	•	•	•	•	•	•	1	0·06	- 0·41	*6·1*	—	*36*	—	*Gordon Castle.*
a Aberdeen ..	71	25th	44	26th	61·9	47·9	54·5	+ 4·2	88	0	•	•	•	•	47·1	-0·9	3	0·16	- 0·24	5·8	—	34	—	Nairn.
a Balmoral ..	63	25, 31	34	26th	61·1	40·7	50·3	+ 1·6	61	4	1	31	•	•	•	•	2	0·10	- 0·45	5·4	- 0·8	32	- 5	Aberdeen.
p Crieff	71	30th	39	26th	61·9	45·1	53·0	+ 0·4	77	0	•	•	•	•	•	•	2	0·48	- 0·12	•	•	•	•	•
a Leith	71	30th	45	27th	62·1	47·9	54·6	+ 2·3	88	0	•	•	•	•	•	•	2	0·20	- 0·21	4·8	—	28	—	Balmoral.
p West Linton .. S	72	30th	35	27, 28	61·6	43·0	51·7	+ 2·4	68	0	0	32	•	•	•	•	•	•	•	•	•	•	•	•
p Marchmont .. S	71	30th	40	28th	63·0	44·7	53·3	+ 3·3	79	0	0	36	53·6	+0·2	•	•	3	0·22	—	*4·6*	—	*28*	—	*Balmoral.*
																	2	0·42	- 0·12	4·8	- 1·1	29	- 7	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	67	25, 29	44	27th	63·0	49·3	55·7	+ 5·2	96	0	0	43	55·2	+1·1	48·5	-1·3	3	0·07	- 0·40	5·8	—	35	—	Cockle Park.
a Shields	68	25th	46	28, 29	61·0	48·0	54·1	+ 3·2	85	0	•	•	•	•	•	•	4	0·49	+ 0·09	•	•	•	•	•
p Durham	73	30th	44	28th	62·7	48·4	55·1	+ 3·8	92	0	0	41	•	•	•	•	5	0·63	+ 0·21	4·1	- 1·5	25	- 9	Durham.
a, North .. *p* Rounton ..	76	30th	44	26th	65·7	49·1	56·9	+ 6·5	104	0	0	39	55·6	•	•	•	5	0·41	- 0·04	•	•	•	•	Rounton.
a West Witton ..	*75*	*30th*	*40*	*28th*	*66·3*	*47·3*	*56·2*	—	*99*	*0*	0	35	55·2	•	46·9	•	*3*	*0·14*	—	•	•	•	•	*West Witton.*
p Scarborough ..	70	25th	48	28th	61·4	51·0	55·9	+ 4·1	97	0	•	•	•	•	49·5†	•	5	1·25	+ 0·82	5·4	—	33	—	Scarborough.
p York	78	30th	49	26, 28, 31	68·1	51·4	59·3	+ 5·7	121	0	•	•	55·4	+1·3	54·3	+4·3	3	0·35	- 0·11	5·3	- 0·5	32	- 3	York.
											0	46	57·4	+2·7	49·1	-0·1	—	—	—	*3·8*	—	*23*	—	*Hull.*
a Spurn Head ..	76	29th	45	27th	66·1	49·4	57·3	+ 5·0	107	0	•	•	•	•	•	•	1	0·02	- 0·32	*6·2*	—	*38*	—	*Spurn Head.*
b, South .. *a* Lincoln	80	30th	45	28th	73·3	51·9	62·0	+ 7·5	140	0	•	•	59·5	+3·6	50·5	-0·1	2	0·27	- 0·16	•	•	•	•	Lincoln.
a Fulbeck	78	27, 30	42	29th	73·0	49·6	60·6	+ 7·1	130	0	0	40	60·5	+0·9	50·7	-1·3	3	0·21	- 0·23	7·4	—	45	—	Rauceby.
											•	•	•	•	•	•	—	—	—	7·2	—	44	—	Skegness.
3. ENGLAND, E.											0	43	60·6	+2·7	53·5	+0·7	—	—	—	*8·4*	—	*52*	—	*Lowestoft.*
p Cromer	80	30th	48	31st	74·1	54·0	63·5	+11·0	151	0	•	•	•	•	•	•	4	0·78	—	8·0	—	49	•	Cromer.
p Little Massingham ..	80	29, 30	47	31st	76·1	54·3	64·6	+11·2	158	0	0	46	•	•	•	•	2	0·10	- 0·35	8·6	+ 1·9	53	+12	Lit. Massingham.
a, North .. *a* Yarmouth	77	30th	50	31st	67·1	53·3	59·8	+ 7·2	125	0	•	•	60·4	+0·2	53·7	-1·2	3	0·36	- 0·03	8·3	—	52	—	Yarmouth.
a Norwich	81	25, 29, 30	50	31st	77·4	54·3	65·2	+12·2	162	0	0	48	61·0	•	•	•	2	0·32	—	*9·0*	—	*56*	—	*Norwich.*
p Geldeston	80	25, 29	50	31st	75·4	53·7	63·9	+10·9	153	0	•	•	•	•	•	•	2	0·57	+ 0·16	9·0	+ 1·9	56	+12	Geldeston.
p Cambridge	79	25, 28, 30	46	31st	75·6	51·0	62·6	+ 8·4	144	0	0	41	60·9	+3·5	53·6	+0·2	2	0·47	+ 0·01	9·0	+ 2·3	56	+14	Cambridge.
a Felixstowe ..	*74*	*27, 30*	*50*	*31st*	*68·3*	*54·1*	*60·8*	*+ 7·2*	*132*	*0*	•	•	•	•	•	•	*3*	*1·48*	—	*10·5*	—	*65*	—	*Felixstowe.*
a Clacton-on-Sea ..	75	27th	51	31st	68·1	55·3	61·3	+ 8·1	135	0	0	44	60·3	+3·3	54·4	+0·5	3	1·37	—	10·0	—	62	—	Clacton.
b, South .. *a* Rothamsted ..	78	26th	46	25th	74·3	50·1	61·5	+ 8·2	137	0	•	•	•	•	•	•	1	0·31	- 0·14	9·1	+ 2·6	57	+16	Rothamsted.
a Shoeburyness ..	*78*	*27th*	*53*	*25, 26*	*75·6*	*54·9*	*64·6*	*+ 8·9*	*158*	*0*	0	36	62·9	+3·3	•	•	*3*	*0·73*	+ *0·43*	*10·0*	—	*63*	—	*Southend.*
p Tottenham	80	26, 27	52	31st	76·6	54·9	65·1	+10·5	162	0	0	48	•	•	53·7	0·0	1	0·45	—	8·9	—	55	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	74	30th	40	28th	65·1	48·9	56·5	+ 5·1	102	0	0	39	56·4	+0·9	47·8	-0·7	—	—	—	*5·8*	—	*36*	—	*Huddersfield.*
a Bawtry	78	26th	40	28th	72·3	49·9	60·4	+ 6·6	129	0	0	34	53·3	+1·5	49·8	-0·1	3	0·13	- 0·37	4·7	—	29	—	Harrogate.
p Buxton	*74*	*26th*	*43*	*25th*	*68·1*	*48·3*	*57·6*	*+ 7·7*	*109*	*0*	0	35	57·2	•	51·3	•	3	0·17	- 0·25	5·5	0·0	34	0	Worksop.
a, East .. *a* Nottingham	81	26th	45	28th	73·6	50·0	61·1	+ 7·3	134	0	0	38	61·3	+5·0	51·5	+0·2	*3*	*0·11*	- *0·61*	*7·8*	—	*48*	—	*Buxton.*
p Birmingham, Edgbsn.	78	26th	46	31st	71·9	50·7	60·7	+ 7·3	131	0	0	36	53·6	+1·7	47·8	-0·3	2	0·24	- 0·19	7·1	—	44	—	Nottingham.
a Raunds	81	25th	45	28th	76·9	50·1	62·7	+ 9·1	145	0	0	39	58·4	•	50·8	•	4	0·33	- 0·17	7·0	—	43	—	Birmingham
p Oxford	80	26th	49	28, 31	74·4	52·7	62·9	+ 8·5	146	0	0	44	•	•	•	•	2	0·52	—	•	•	•	•	Raunds.
											0	40	56·2	+2·6	48·4	-0·2	3	0·33	- 0·10	8·4	+ 1·9	52	+12	Oxford.
a Cheadle	75	26, 30	41	31st	70·1	48·0	58·4	+ 6·5	115	0	0	34	•	•	•	•	—	—	—	6·8	—	42	—	Sheffield.
p Shrewsbury	77	26, 28	42	27th	72·1	46·9	58·7	+ 4·5	117	0	0	39	•	•	•	•	1	0·25	- 0·27	•	•	•	•	Cheadle.
b, West .. *a* Hereford	80	26th	47	31st	72·6	49·6	60·4	+ 6·0	129	0	0	42	•	•	•	•	5	0·26	—	•	•	•	•	Shrewsbury.
a Cirencester	78	28th	44	25th	71·9	48·0	59·2	+ 6·0	120	0	0	43	56·8	•	52·1	•	2	0·11	- 0·37	•	•	•	•	Hereford.
a Bath	80	26th	46	25th	73·6	50·9	61·6	+ 7·1	137	0	•	•	59·6	+1·4	53·3	-0·8	2	0·18	- 0·32	9·9	+ 3·1	62	+20	Cirencester.
																	0	0·00	- 0·48	9·8	—	57	—	Bath.
5. ENGLAND, S.E.																								
p Kew	81	28th	51	31st	76·0	53·9	64·3	+ 9·2	156	0	0	44	64·3	+7·0	54·0	+0·4	—	—	—	•	•	•	•	Canterbury
a Marlborough	78	26, 27	42	25th	72·7	46·7	58·9	+ 6·2	118	0	0	41	60·6	+3·4	52·6	+0·4	2	0·73	+ 0·30	9·7	+ 3·1	61	+19	Kew.
a Margate	80	29, 30	50	31st	75·3	54·9	64·5	+10·4	158	0	0	38	•	•	51·2	•	1	0·04	- 0·43	9·6	+ 3·5	60	+22	Marlborough.
a Wisley, Surrey ..	80	26th	48	25th	75·3	51·1	62·5	+ 7·2	144	0	0	44	57·6	+0·3	52·0	-0·9	3	0·58	+ 0·21	10·1	+ 3·7	63	+23	Margate.
											0	35	61·2	+3·8	53·5	+0·3	1	0·61	—	10·3	—	64	—	Wisley
p Salisbury (Wilton) ..	79	26, 27	45	25th	72·9	49·3	60·4	+ 5·2	129	0	0	47	62·0	+2·6	54·0	+0·5	—	—	—	11·0	—	69	—	Worthing.
a Tunbridge Wells ..											0	43	62·3	•	•	•	2	0·09	- 0·37	•	•	•	•	Salisbury.
a Dungeness	76	26th	47	25th	67·9	52·3	59·6	+ 5·7	123	0	•	•	•	•	•	•	•	•	•	•	•	•	•	Tunbridge Wells.
p Hastings.. ..	76	26th	47	25th	70·3	53·9	61·6	+ 7·2	137	0	0	45	62·9	•	54·0	•	1	0·10	- 0·20	10·4	—	65	—	Littlestone.
p Southampton	78	27th	51	25, 31	70·9	52·7	61·3	+ 5·1	135	0	0	48	•	•	•	•	2	0·21	- 0·16	*11·6*	+ *3·8*	*73*	+*24*	*Hastings.*
a Ventnor	72	27th	47	25th	68·1	52·9	59·1	+ 4·0	120	0	•	•	•	•	•	•	1	0·97	+ 0·53	9·3	+ 2·1	58	+13	Southampton
											0	46	62·5	+3·1	55·9	+0·8	1	0·37	- 0·03	9·5	+ 2·3	60	+14	Ventnor.
											•	•	58·9	•	53·9	•	—	—	—	*10·1*	—	*63*	—	*Portsmouth.*
											•	•	59·7	•	54·9	•	—	—	—	11·6	+ 4·2	73	+26	Eastbourne
LONDON.											0	42	•	•	55·0	•	—	—	—	*9·8*	—	*62*	—	*Bournemouth.*
a Westminster	*80*	*26, 27*	*52*	*25th*	*75·9*	*56·0*	*65·4*	*+10·1*	*164*	*0*	0	46	•	•	•	•	—	—	—	*10·8*	+ *3·5*	*68*	+*22*	*Brighton.*
a Greenwich	*84*	*26, 27*	*50*	*25, 31*	*79·1*	*53·0*	*65·3*	*+ 9·7*	*163*	*0*	0	38	•	•	•	•	*2*	*0·51*	+ *0·10*	*9·2*	+ *3·6*	*58*	+*23*	*Westminster.*
a Hampstead	*78*	*26, 27*	*49*	*31st*	*74·3*	*54·4*	*63·8*	—	*153*	*0*	0	42	•	•	•	•	*2*	*0·40*	- *0·03*	*9·3*	+ *3·0*	*58*	+*19*	*Greenwich.*
a Camden Square ..	*84*	*26, 27*	*51*	*31st*	*80·1*	*55·1*	*66·9*	—	*174*	*0*	*2*	*0·63*	—	*9·4*	—	*59*	—	*Hampstead.*					
											0	48	•	•	•	•	*2*	*0·61*	—	*7·9*	—	*49*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	65	30th	41	27th	58·7	46·9	52·5	+ 0·1	74	0	•	•	•	•	•	•	6	0·56	- 0·08	•	•	•	•	•
p Glasgow	71	30th	42	27th	61·7	47·6	54·2	+ 2·0	85	0	0	31	•	•	•	•	4	0·29	- 0·28	4·5	- 0·9	27	- 5	Glasgow.
p Rothesay ..	68	30th	41	27th	61·6	46·3	53·5	+ 1·1	81	0	•	•	•	•	49·6	-0·6	5	0·54	- 0·12	•	•	•	•	•
a Kilmarnock ..	70	30th	39	27th	62·0	46·7	53·9	+ 1·5	83	0	•	•	•	•	•	•	4	0·52	—	*5·3*	—	*32*	—	*Kilmarnock.*
a Colmonell ..	69	30th	36	26th	61·9	45·9	53·4	+ 0·8	80	0	0	34	•	•	•	•	3	0·51	- 0·06	•	•	•	•	•
p Dumfries ..	73	30th	42	26th	62·4	47·2	54·3	+ 1·0	86	0	0	40	55·4	•	51·3	•	3	0·16	- 0·40	*6·0*	—	*36*	—	*Dumfries.*
p Cally, Gatehouse	71	26th	40	26th	62·9	46·7	54·3	+ 2·0	86	0	•	•	•	•	•	•	3	0·39	- 0·30	•	•	•	•	•
b I. OF MAN																								
p Douglas	61	26, 27, 30	47	26–28, 31	57·0	48·0	52·2	+ 0·3	71	0	0	43	•	•	•	•	4	0·18	- 0·40	5·2	- 2·1	32	-13	Douglas.
											0	34	54·3	-0·5	48·3	-0·9	—	—	—	*5·6*	—	*34*	—	*Burnley.*
											0	41	•	•	•	•	—	—	—	7·4	—	45	—	Hoylake.
p Aspatria	76	30th	45	27th	63·0	47·4	54·7	+ 2·9	89	0	0	38	54·7	•	48·6	•	3	0·32	- 0·23	6·6	—	40	—	Aspatria.
p Newton Rigg	73	30th	38	28th	64·3	47·7	55·5	+ 4·1	95	0	0	36	54·7	0·0	48·6	-0·8	4	0·17	- 0·37	5·2	- 1·4	31	- 9	Newton Rigg.
p Stonyhurst	74	30th	45	26, 28	64·4	50·0	56·8	+ 4·1	104	0	0	36	•	•	•	•	4	0·13	- 0·50	5·6	- 0·8	34	- 5	Stonyhurst.
p Blackpool ..	74	30th	41	26th	60·7	47·9	53·9	+ 0·8	83	0	0	34	53·9	•	48·7	•	3	0·20	- 0·29	6·8	+ 0·2	42	+ 1	Blackpool.
p Manchester (Whit. Pk.)	76	26, 30	46	28th	69·6	51·6	60·1	+ 5·6	127	0	•	•	•	•	•	•	3	0·15	- 0·32	*5·8*	+ *0·6*	*36*	+ *4*	*Whit. Park.*
a Liverpool (Bidston) ..	74	30th	48	27th	62·9	50·7	56·4	+ 3·1	101	0	•	•	•	•	•	•	4	0·37	- 0·09	7·7	—	*47*	—	*Liverpool.*
a Hawarden Bridge ..	76	30th	47	28th	66·4	50·6	58·0	+ 3·6	112	0	0	38	59·1	+0·5	53·2	-1·1	2	0·39	+ 0·13	7·3	—	*45*	—	*Southport.*
											0	43	57·2	+1·6	51·2	0·0	—	—	—	*5·6*	—	*34*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	74	31th	45	27th	62·6	49·1	55·5	+ 1·9	95	0	•	•	•	•	•	•	3	0·12	- 0·31	6·4	- 0·4	39	- 2	Llandudno.
a Holyhead	61	30th	44	26th	56·7	48·4	52·3	- 0·4	72	0	•	•	•	•	•	•	3	0·09	- 0·36	*5·7*	—	*35*	—	*Holyhead.*
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed
											•	•	•	•	•	•	—	—	—	5·8	—	36	—	Aberdovey.

For notes see also opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				4·5	—	23	—	Aberystwyth.
a Llangammarch Wells	74	26th	44	28th	68·3	47·1	57·1	+ 5·1	106	0	0	37	55·8	+1·3	49·2	−0·4	5	0·33	—	7·4	—	46	—	Llangammarch
a Pembroke	66	27th	47	26th	58·6	49·3	53·7	+ 1·0	82	0	•	•	•	•	•	•	3	0·54	+ 0·11	6·0	− 1·3	37	− 8	Pembroke.[Wells
p Cardiff	78	26th	47	25, 31	70·7	51·3	60·4	+ 5·3	129	0	0	40	60·2	+2·6	51·9	−0·5	3	0·34	− 0·21	*8·6*	—	*54*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	79	26th	49	31st	72·9	53·3	62·5	+ 7·3	144	0	0	48	•	•	•	•	1	0·34	− 0·16	*9·3*	—	*58*	—	*Clifton.*
a Shaftesbury	76	26th	47	31st	69·9	53·1	61·0	+ 8·9	133	0	•	•	59·9	•	52·4	•	1	0·06	− 0·44	•	•	•	•	Shaftesbury.
a Arlington	76	26th	45	31st	68·1	49·3	58·1	+ 5·7	113	0	•	•	•	•	•	•	3	0·55	− 0·10	•	•	•	•	Arlington.
a Newquay	*67*	*28th*	*47*	*31st*	*61·4*	*49·4*	*55·0*	+ *1·0*	*91*	*0*	•	•	58·4	•	•	•	*4*	*0·51*	+ *0·18*	8·0	+ 0·7	50	+ 4	Newquay.
a Cullompton	81	26th	47	25, 31	72·7	49·3	60·3	+ 5·9	128	0	0	41	61·4	•	•	•	3	0·19	− 0·31	8·2	+ 1·5	52	+ 9	Cullompton.
a Portland	65	27th	48	25, 26	60·7	50·7	55·4	+ 1·4	94	0	•	•	•	•	•	•	1	0·11	—	*8·6*	—	*54*	—	*Weymouth.*
p Plymouth	72	26th	47	25th	62·4	51·5	56·6	+ 1·3	102	0	0	47	59·5	+0·9	•	•	3	0·06	− 0·41	6·9	− 0·4	43	− 3	Plymouth.
p Falmouth	73	27th	49	30, 31	63·0	51·7	57·0	+ 2·9	105	0	•	•	•	•	•	•	3	0·31	− 0·21	7·1	− 0·7	45	− 5	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	62	30th	46	27th	56·4	48·6	52·3	+ 1·0	72	0	•	•	•	•	•	•	6	0·23	− 0·24	•	•	•	•	• •
a Blacksod Point ..	59	27th	42	26th	55·1	47·4	51·0	− 1·7	63	0	•	•	•	•	•	•	4	1·14	+ 0·54	•	•	•	•	• •
p Markree Castle ..	63	25, 30	35	26th	60·1	45·4	52·3	+ 0·4	72	0	1	29	55·7	•	49·9	•	5	0·80	+ 0·18	4·3	− 1·6	26	−10	Markree Castle.
a Birr Castle	67	27th	43	26, 31	62·7	47·7	54·8	+ 1·7	90	0	•	•	•	•	•	•	5	0·30	− 0·21	*4·2*	− *1·7*	*26*	−*10*	*Birr Castle.*
b, East .. *p* Armagh	66	25th	41	26th	62·1	47·3	54·3	+ 2·4	86	0	0	34	55·6	−0·5	50·6	−1·2	4	0·87	+ 0·30	5·7	− 0·2	35	− 1	Armagh.
a Donaghadee	63	25th	43	26th	58·4	48·0	52·9	+ 0·8	76	0	•	•	•	•	•	•	4	0·40	− 0·12	•	•	•	•	• •
											0	40	56·5	+0·5	51·7	−0·7	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	36	•	•	•	•	—	—	—	4·9	− 1·8	30	−11	Phœnix Park.
a, East .. *p* Dublin, City	67	25th	47	31st	62·4	51·6	56·7	+ 2·2	103	0	0	44	•	•	•	•	2	0·08	− 0·37	•	•	•	•	Dublin City.
a Kilkenny	68	26, 27	42	31st	62·0	49·3	55·3	+ 2·1	93	0	•	•	•	•	•	•	4	0·84	+ 0·34	•	•	•	•	• •
a Waterford	70	26th	45	25th	60·3	49·9	54·8	+ 0·7	90	0	•	•	•	•	•	•	3	0·76	+ 0·19	•	•	•	•	• •
a Birr Castle	67	27th	43	26, 31	62·7	47·7	54·8	+ 1·7	90	0	•	•	•	•	•	•	5	0·30	− 0·21	4·2	− 1·7	26	−10	Birr Castle.
a Foynes	70	27th	41	26th	63·4	48·5	55·5	+ 1·5	95	0	•	•	•	•	•	•	3	0·61	+ 0·08	•	•	•	•	• •
b, West .. *a* Cahir	70	26, 27	39	31st	63·0	48·7	55·4	+ 1·7	94	0	•	•	•	•	•	•	4	0·36	—	•	•	•	•	• •
a Killarney	73	27th	42	28th	64·0	49·6	56·4	+ 2·8	101	0	•	•	•	•	•	•	3	0·73	+ 0·06	•	•	•	•	• •
a Valencia	66	26th	42	26th	57·9	48·6	53·0	− 0·8	77	0	•	•	•	•	•	•	5	2·14	+ 1·42	4·9	− 1·8	30	−11	Valencia.
a Roche's Point	59	25-27	46	31st	57·0	49·7	53·1	− 0·8	78	0	•	•	•	•	•	•	6	0·74	+ 0·15	5·7	—	36	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	64	27th	44	31st	58·4	48·1	52·9	− 1·7	76	0	•	•	•	•	•	•	3	0·33	− 0·05	5·3	− 2·6	33	−16	Scilly.
a Jersey, St. Aubins ..	80	26th	49	25th	70·9	53·1	61·5	+ 5·8	137	0	•	•	•	•	•	•	1	0·01	− 0·46	9·2	+ 1·1	59	+ 7	St. Heliers.
a Guernsey (Villa Carey)	78	26th	48	25th	70·3	52·0	60·6	+ 5·4	130	0	0	44	61·1	+2·6	54·4	0·0	1	0·08	− 0·38	9·8	+ 1·4	62	+ 9	Guernsey.*

Additional Sunshine Means:—*Bognor, 9·7 hrs. 61 %; Ramsgate, 10·6 hrs. 66 %; Rhyl, 7·0 hrs. 43 %; Salcombe, 7·8 hrs. 49 %; Tenby, 6·8 hrs. (−0·6) 42 %(−4); Torquay, 8·6 hrs. (+1·1) 54 % (+7).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, May 31st.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	48	47	47·6	0·0	SCOTLAND, W. ..	Lamlash	52	48	50·2	−0·5
	Kirkwall	51	49	50·0	−0·7		Ballantrae	50	46	48·0	−3·0
	Wick	47	45	46·2	−2·7	ENGLAND, N.W. ..	Port Erin	54	49	50·4	+0·3
SCOTLAND, E. ..	Cromarty	53	49	50·4	−0·4	ENGLAND, S.W. ..	Newquay	54	53	53·2	−2·1
	Pennan Bay	55	50	53·0	+1·5		Scilly	55	53	54·3	—
	Aberdeen, Cove Bay	—	—	—	—		Plymouth‡	57	56	56·8	+3·1
ENGLAND, N.E. ..	Burnmouth, Berwick	49	47	47·7	−0·1		Salcombe	60	52	56·9	+3·7
	Scarborough	59	52	55·3	+5·8	IRELAND, N.W. ..	Sheephaven	53	53	53·0	−0·8
ENGLAND, E. ..	Shipwash Lightship	59	53	55·4	+2·4		Teelin	56	52	54·3	−1·1
ENGLAND, S.E. ..	Eastbourne‡	59	55	57·1	+0·9	IRELAND, S.W. ..	Cleggan	53	50	52·3	−1·3
							Seafield	59	54	57·5	+1·8
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, fo that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account ot the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-SECOND WEEK—May 25th to May 31st, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	72	40	58·3	46·4	52·0	+ 1·8	70	+ 10	0	− 2	6	+ 2	0·60	+0·04	4·1	−1·5	24	− 9
Eastern.																		
1. SCOTLAND, EAST ...	74	34	62·2	45·3	53·3	+ 2·1	79	+ 12	0	− 2	2	− 2	0·21	−0·27	5·2	−1·0	31	− 6
2. ENGLAND, N.E.	80	42	66·0	49·8	57·4	+ 5·0	108	+ 35	0	0	3	0	0·41	−0·02	5·9	−0·4	36	− 3
3. ENGLAND, EAST ...	81	46	73·9	53·4	63·1	+ 8·6	148	+ 60	0	0	2	0	0·53	+0·07	8·9	+1·9	55	+12
4. MIDLAND COUNTIES ...	81	40	72·2	49·6	60·2	+ 5·8	127	+ 39	0	− 1	2	− 1	0·23	−0·27	7·4	+1·2	45	+ 7
5. ENGLAND, S.E.	81	42	71·8	52·0	61·4	+ 5·8	136	+ 41	0	0	2	0	0·41	−0·05	10·2	+3·1	64	+20
Western.																		
6. SCOTLAND, WEST ...	73	36	61·0	46·9	53·5	+ 0·8	81	+ 5	0	− 1	4	+ 1	0·39	−0·22	4·9	−1·8	29	−11
7. ENGLAND, N.W.	76	38	63·4	49·3	55·9	+ 2·2	97	+ 15	0	0	3	0	0·21	−0·29	6·3	−0·5	38	− 3
8. ENGLAND, S.W.	81	44	66·7	50·7	58·2	+ 3·5	113	+ 24	0	0	3	0	0·28	−0·20	6·9	0·0	43	0
9. IRELAND, NORTH ...	67	35	59·1	47·4	52·9	− 0·1	76	− 1	0	0	5	+ 2	0·62	+0·07	5·0	−1·3	31	− 8
10. IRELAND, SOUTH ...	73	39	61·4	49·3	55·0	+ 0·6	91	+ 4	0	0	4	+ 1	0·73	+0·14	4·9	−1·7	31	−11
11. ENGLISH CHANNEL ...	80	44	66·5	51·1	58·3	+ 2·7	114	+ 19	0	0	2	− 1	0·14	−0·36	8·1	0·0	52	0

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 13 Weeks, March 2nd to May 31st, 1913.

0. SCOTLAND, NORTH ...	72	21	*	*	*	*	337	− 51	198	− 27	63	+ 5	12·41	+ 2·53	3·9	−0·6	27	− 4
Eastern.																		
1. SCOTLAND, EAST ...	74	16	*	*	*	*	391	− 72	259	+ 17	55	+ 6	8·37	+ 2·10	4·4	−0·5	32	− 3
2. ENGLAND, N.E.	80	20	*	*	*	*	504	+ 32	148	− 26	51	+ 7	7·41	+ 2·32	4·3	−0·9	31	− 7
3 ENGLAND, EAST ...	81	24	*	*	*	*	673	+ 72	94	− 88	48	+ 7	5·81	+ 0·86	4·8	−0·6	35	− 5
4. MIDLAND COUNTIES ...	81	22	*	*	*	*	599	− 16	130	− 67	53	+12	9·00	+ 3·47	4·2	−0·7	30	− 5
5. ENGLAND, S.E.	81	23	*	*	*	*	668	+ 19	59	− 63	52	+13	7·32	+ 2·16	5·0	−0·5	37	− 3
Western.																		
6. SCOTLAND, WEST ...	73	21	*	*	*	*	467	− 36	130	− 33	62	+13	12·01	+ 3·04	4·1	−1·0	29	− 7
7. ENGLAND, N.W.	76	21	*	*	*	*	515	− 15	105	− 30	61	+16	10·41	+ 3·79	4·2	−0·8	31	− 6
8. ENGLAND, S.W.	81	20	*	*	*	*	588	− 26	69	− 33	59	+15	11·97	+ 4·89	4·4	−1·1	32	− 8
9. IRELAND, NORTH ...	69	25	*	*	*	*	481	− 54	136	+ 8	68	+15	10·89	+ 3·46	4·4	−0·5	32	− 3
10. IRELAND, SOUTH ...	73	23	*	*	*	*	574	− 59	98	+ 4	68	+20	12·62	+ 4·65	4·6	−0·7	33	− 6
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	693	− 7	2	− 28	55	+ 9	8·11	+ 2·10	4·9	−1·6	36	−12

THE YEAR.—Aggregates, &c., for the Period of 22 Weeks, December 29th, 1912, to May 31st, 1913.

0. SCOTLAND, NORTH ...	72	21	*	*	*	*	405	− 43	424	−131	106	+ 2	21·69	+0·85	2·7	−0·5	23	− 5
Eastern.																		
1. SCOTLAND, EAST ...	74	11	*	*	*	*	445	− 86	601	− 18	92	+ 8	13·23	+1·97	3·1	−0·6	26	− 5
2. ENGLAND, N.E.	80	18	*	*	*	*	585	+ 33	406	− 69	86	+ 9	11·29	+2·81	3·1	−0·8	26	− 7
3. ENGLAND, EAST ...	81	20	*	*	*	*	780	+ 89	303	−218	81	+ 6	9·36	+1·04	3·6	−0·5	31	− 5
4. MIDLAND COUNTIES ...	81	13	*	*	*	*	710	− 9	392	−141	87	+13	13·79	+4·08	3·0	−0·7	26	− 6
5. ENGLAND, S.E.	81	22	*	*	*	*	807	+ 40	221	−160	82	+11	12·28	+2·67	3·8	−0·3	32	− 3
Western.																		
6. SCOTLAND, WEST ...	73	17	*	*	*	*	567	− 25	323	−102	100	+11	20·95	+3·13	2·8	−0·9	24	− 8
7. ENGLAND, N.W.	76	10	*	*	*	*	622	− 2	298	− 88	96	+15	16·29	+4·00	3·1	−0·6	27	− 5
8. ENGLAND, S.W.	81	19	*	*	*	*	751	− 14	221	− 80	100	+20	20·48	+6·40	3·4	−0·7	29	− 6
9. IRELAND, NORTH ...	69	21	*	*	*	*	632	− 28	297	− 48	110	+15	18·17	+4·21	3·2	−0·4	27	− 4
10. IRELAND, SOUTH ...	73	22	*	*	*	*	773	− 46	243	− 16	112	+26	22·41	+6·89	3·3	−0·7	28	− 6
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	958	+ 39	38	− 71	95	+ 8	14·83	+2·91	3·9	−1·0	33	− 9

M.O., June 4, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 9, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 23. TWENTY-THIRD WEEK, SUNDAY, JUNE 1ST, TO SATURDAY, JUNE 7TH, 1913.

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Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. In the earlier half of the week the weather was fair or fine over the greater part of England, but generally unsettled and rainy in Ireland, Scotland and Wales. Later on changeable conditions extended over the entire Kingdom, but in our eastern and southern counties the showers were slight, and were interspersed with considerable periods of bright sunshine. Thunder was heard on the 4th at many north-western stations, and thunderstorms or thunder only occurred on the 5th and 6th at a large number of places situated in the northern and eastern districts.

Temperature was below the average in most of the western and southern districts, but above it in the northern, eastern and central parts of Great Britain. The highest readings occurred between the 2nd and 4th, when the thermometer rose to between 72° and 75° in most of the English and Scottish districts, and reached 78° in Scotland East, (at Gordon Castle); in Ireland it did not exceed 68°. The lowest readings occurred mostly on the 1st and 2nd, and ranged from 34° in England South-West and 35° in Scotland East to 40° in England South-East and Scotland West, and to 44° in Scotland North and the English Channel. On the surface of the grass the lowest temperatures were 26° at Wisley and 29° at Greenwich, Blackpool and Newton Rigg. At a depth of both 1 foot and 4 feet the temperature of the soil was a trifle below the average in most of the western districts, but above it elsewhere.

Mean Temperature of the Sea. On the British coasts the water was, in most places, warmer than in the corresponding week of last year, but around Ireland it was rather cooler, and on our western coasts generally it was below the average. The actual values ranged from 59° at Seafield and 58° at Eastbourne to 49° at Lerwick and Berwick, and to 47° at Wick.

Rainfall was in excess of the average in the western and northern districts, largely so in Scotland North and Ireland South. Over the greater part of England it was less than the normal. At Alnwick Castle the fall on the 6th amounted to as much as 1·4 in.

Bright Sunshine exceeded the normal in nearly all parts of Great Britain, but was deficient in Scotland North and also in Ireland. The mean daily duration ranged from 8·2 hours (50 per cent. of the possible duration) in England North-West to 4·3 hours in Ireland North and to 3·3 hours (only 19 per cent. of the possible) in Scotland North.

Barometer and Wind. During the first half of the period the conditions over England were influenced by a large anticyclone whose borders extended eastwards from the Continent, while in Ireland and Scotland the weather was affected by a cyclonic disturbance which moved slowly north-eastward between Scotland and Iceland, and afterwards dispersed. The prevailing winds were Southerly or South-Westerly, and on our western and north-western coasts they blew with considerable strength. On the 4th and 5th the central area of a large depression passed in a north-easterly direction across our western and northern districts, and in its rear a strong wind from West or North-West sprang up on our western coasts. Towards the close of the week, when a disturbance of considerable intensity for the time of year again travelled North-Eastward between Scotland and Iceland, strong to high winds from the South-Westward and Westward were experienced over the United Kingdom generally, and gale force was reached on several of the more exposed parts of our coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 87.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Deficient	Moderate
	Rainfall ...	Very heavy	Heavy	Moderate	Light	Moderate	Light	Heavy	Heavy	Heavy	Moderate	Heavy	Moderate
	Sunshine ...	Scanty	Abundant	Abundant	Moderate	Abundant	Moderate	Moderate	Abundant	Moderate	Scanty	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 1 week from June 1st, 1913.	Warmth ...	0 * 0	0 * 0	1 * 0	1 * 0	0 * 0	0 * 0	0 * 0	0 * 0	0 * 1	0 * 1	0 * 1	0 * 0
	Rainfall ...	1 * 0	1 * 0	0 * 0	0 * 1	0 * 0	0 * 1	1 * 0	1 * 0	1 * 0	0 * 0	1 * 0	0 * 0
	Sunshine ...	0 * 1	1 * 0	1 * 0	0 * 0	1 * 0	0 * 0	0 * 0	1 * 0	0 * 0	0 * 1	0 * 0	0 * 0

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(30387—24.) Wt. 196—786. 450. 6/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	°/₀	°/₀	
0. SCOTLAND, N.																								
p Baltasound .. S	*61*	*4th*	*45*	*2nd*	*56·3*	*47·0*	*51·3*	—	*65*	*0*	•	•												
a, Islands .. *a* Lerwick ..	57	4th	46	2nd	54·0	47·9	50·7	+ 3·0	61	0	•	•	51·8				7	*0·83*	—	*4·2*	—	*23*	—	*Baltasound.*
a Stornoway ..	64	4th	46	1st	57·3	47·9	52·3	+ 2·1	72	0	•	•	•	•	•	•	6	0·66	—	4·7	- 0·6	26	- 4	Deerness.
a Castlebay, Barra Isd.‡..	*57*	*4th*	*46*	*1, 2, 7*	*53·4*	*47·7*	*50·4*	*- 0·4*	*59*	*0*	•	•	•	•	•	•	6	1·79	+ 1·28	3·0	- 3·2	17	-18	Stornoway.
																	6	*0·81*	—	*3·0*	—	*17*	—	*Castlebay.*
a Wick	59	3, 6	44	3, 6	56·3	45·9	50·7	+ 0·5	61	0	•	•	•	•	•	•	5	1·10	+ 0·68	•	•	•	•	
b, Main- *p* Strathpeffer ..											•	•	•	•	•	•	—	—	—	•	•	•	•	
land. *p* Glencarron ..	70	4th	44	2nd	58·2	47·5	52·5	+ 1·8	74	0	•	•	•	•	•	•	7	2·83	+ 1·86	•	•	•	•	Strathpeffer.
p Fort Augustus..	73	4th	44	2nd	61·4	47·9	54·2	+ 2·3	85	0	•	•	•	•	•	•	7	1·08	+ 0·61	2·3	- 2·2	13	-13	Fort Augustus.
p Fort William ..	72	4th	45	2, 7	60·8	47·4	53·6	+ 0·6	81	0	•	•	•	•	•	•	7	2·61	+ 1·78	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	78	4th	45	1 3, 7	66·1	47·3	56·1	+ 3·8	99	0	0	33	55·1	+1·1	49·6	-0·2	—	—	—	8·4	—	49	—	Crathes S.
a Nairn	69	5th	41	6th	62·6	45·3	53·4	+ 1·0	80	0	•	•	•	•	•	•	3	0·85	+ 0·37	*7·5*	—	*43*	—	*Gordon Castle.*
a Aberdeen ..	66	3rd	46	4th	63·4	48·3	55·3	+ 3·6	93	0	•	•	•	•	48·6	-0·5	4	0·45	+ 0·06	6·1	—	35	—	Nairn.
a Balmoral ..	71	4th	36	4th	65·3	43·4	53·8	+ 3·4	81	0	0	32	•	•	•	•	3	0·59	+ 0·16	8·7	+ 2·5	50	+14	Aberdeen.
p Crieff	70	4th	42	4th	61·7	44·0	53·3	- 0·7	79	0	•	•	•	•	•	•	4	0·58	+ 0·06	•	•	•	•	Balmoral.
a Leith	65	5, 6	44	4th	62·4	48·3	54·9	+ 1·3	90	0	•	•	•	•	•	•	5	0·94	+ 0·32	6·7	—	39	—	Balruddery.
p West Linton .. S	66	4, 5	35	2nd	61·0	42·1	50·9	+ 0·2	62	0	1	30	•	•	•	•	4	0·44	+ 0·04	•	•	•	•	
p Marchmont .. S	67	4th	40	2nd	63·1	45·6	53·7	+ 2·2	82	0	0	35	54·9	0·0	•	•	5	1·21	—	*5·6*	—	*33*	—	*West Linton.*
																	3	0·52	- 0·01	8·3	+ 2·3	49	+14	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	72	2nd	37	2nd	65·9	45·6	55·0	+ 3·0	91	0	0	32	56·4	+0·9	50·9	-0·3	4	1·93	+ 1·46	9·7	—	57	—	Cockle Park.
a Shields	68	2nd	42	2nd	64·6	47·1	55·2	+ 3·2	92	0	•	•	•	•	•	•	4	0·16	- 0·27	•	•	•	•	
p Durham	70	4th	37	2nd	63·9	45·0	53·8	+ 0·7	83	0	0	33	•	•	•	•	5	0·35	- 0·07	8·7	+ 3·1	52	+18	Durham.
a, North .. *p* Rounton	73	4th	39	2nd	66·4	46·6	55·8	+ 3·8	97	0	0	34	57·4	•	•	•	4	0·27	- 0·19	•	•	•	•	Rounton
a West Witton	*70*	*4th*	*38*	*2nd*	*63·6*	*45·9*	*54·1*	—	*85*	*0*	0	35	56·6	•	48·8	•	*5*	*0·59*	—	•	•	•	•	*West Witton.*
p Scarborough	70	2nd	45	1st	64·1	49·6	56·4	+ 3·1	101	0	•	•	•	•	50·7†	•	3	0·26	- 0·17	7·2	—	43	—	Scarborough.
p York	72	4th	43	2nd	67·4	48·4	57·2	+ 2·0	106	0	•	•	56·6	+1·3	51·9	+0·7	5	0·55	+ 0·08	7·4	+ 1·6	44	+10	York.
											0	40	58·6	+2·7	50·6	+0·2	—	—	—	*3·3*	—	*20*	—	*Hull.*
a Spurn Head	69	2nd	46	1st	63·9	49·7	56·3	+ 2·3	100	0	•	•	•	•	•	•	2	0·08	- 0·26	*6·7*	—	*40*	—	*Spurn Head.*
b, South .. *a* Lincoln	75	4th	45	1st	68·9	49·0	58·3	+ 2·4	114	0	•	•	60·2	+3·0	52·9	+1·1	2	0·09	- 0·35	•	•	•	•	Lincoln.
a Fulbeck	72	4th	39	2nd	66·1	46·6	55·7	+ 0·5	96	0	0	33	60·9	+0·5	52·9	-0·3	3	0·16	- 0·28	7·3	—	45	—	Rauceby.
											•	•	•	•	•	•	—	—	—	8·1	—	49	—	Skegness.
											0	41	59·5	+0·3	55·1	+1·1	—	—	—	*6·7*	—	*41*	—	*Lowestoft.*
p Cromer	73	4th	45	1st	68·6	48·6	57·9	+ 3·9	111	0	•	•	•	•	•	•	3	0·05	—	7·0	—	43	•	Cromer.
p Little Massingham ..	72	2, 3, 4	44	1st	69·1	48·3	58·0	+ 3·1	112	0	0	41	•	•	•	•	2	0·24	- 0·24	6·6	0·0	40	0	Lit. Massingham
a, North .. *a* Yarmouth ..	69	7th	47	1st	63·7	50·9	56·9	+ 2·7	104	0	•	•	60·4	-1·3	55·7	-0·6	1	0·04	- 0·36	7·0	—	43	—	Yarmouth.
a Norwich	74	3rd	44	1st	69·0	47·9	57·7	+ 3·2	110	0	0	40	60·5	•	•	•	3	0·08	—	*6·8*	—	*42*	—	*Norwich.*
p Geldeston	72	5th	44	1st	67·0	48·1	56·9	+ 2·3	104	0	•	•	•	•	•	•	2	0·18	- 0·24	6·5	- 0·6	40	- 4	Geldeston.
p Cambridge	74	3rd	39	1st	68·9	47·0	57·2	+ 1·1	106	0	0	33	60·4	+1·4	55·6	+1·1	1	0·34	- 0·13	7·4	+ 0·7	45	+ 4	Cambridge.
a Felixstowe	*67*	*7th*	*46*	*1st*	*63·3*	*52·1*	*57·3*	*+ 2·3*	*107*	*0*	•	•	•	•	•	•	*2*	*0·27*	—	*7·4*	—	*45*	—	*Felixstowe.*
a Clacton-on-Sea ..	66	7th	49	1, 2	62·7	52·9	57·5	+ 2·8	109	0	0	41	59·5	+1·4	56·4	+1·4	3	0·21	—	6·6	—	41	—	Clacton.
b, South .. *a* Rothamsted ..	71	3rd	39	1st	66·1	45·7	55·2	+ 0·3	92	0	•	•	•	•	•	•	3	0·35	- 0·11	7·5	+ 1·0	46	+ 6	Rothamsted.
a Shoeburyness	*69*	*4th*	*46*	*1st*	*65·3*	*50·6*	*57·4*	*- 0·2*	*108*	*0*	0	39	61·6	+1·1	•	•	*1*	*0·05*	*- 0·31*	*7·1*	—	*44*	—	*Southend.*
p Tottenham	73	3rd	44	1st	67·4	50·0	58·1	+ 1·8	113	0	0	41	•	•	55·7	+0·6	2	0·15	—	6·8	—	42	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	70	4th	42	2nd	64·1	46·3	54·6	+ 1·7	88	0	0	37	57·9	+0·9	49·7	-0·1	—	—	—	*7·3*	—	*44*	—	*Hudderfield.*
a Bawtry	75	4th	41	2nd	68·7	46·0	56·6	+ 1·2	102	0	0	35	57·0	•	53·3	•	5	0·41	- 0·11	8·3	—	50	—	Harrogate.
p Buxton	*66*	*2, 5*	*40*	*1st*	*62·4*	*44·4*	*52·8*	*+ 1·2*	*76*	*0*	0	37	56·2	+0·9	48·7	-0·5	3	0·46	+ 0·05	6·6	+ 1·1	40	+ 7	Worksop.
a, East .. *a* Nottingham ..	75	4th	41	1st	68·6	46·3	56·7	+ 1·4	103	0	0	34	60·6	+3·0	54·1	+1·5	*5*	*0·90*	*+ 0·19*	*7·1*	—	*43*	—	*Buxton.*
p Birmingham, Edgbsn.	71	4th	43	1st	65·0	47·3	55·5	+ 0·6	95	0	1	30	53·6	+0·7	49·2	+0·3	4	0·31	- 0·33	7·2	—	44	—	Nottingham.
a Raunds	73	3rd	39	1st	70·0	46·6	57·5	+ 2·2	109	0	0	31	59·1	•	52·5	•	3	0·52	+ 0·02	7·5	—	46	—	Birmingham
p Oxford	73	3rd	42	1st	66·7	48·0	56·7	+ 0·7	103	0	0	35	•	•	•	•	3	0·25	—	•	•	•	•	Raunds.
											0	38	56·6	+1·8	50·4	+0·8	3	0·13	- 0·32	7·8	+ 1·3	48	+ 8	Oxford.
a Cheadle	72	4th	44	1st	64·6	46·7	55·0	+ 1·4	91	0	0	37	•	•	•	•	—	—	—	7·6	—	46	—	Sheffield.
p Shrewsbury ..	73	4th	38	1st	66·1	45·9	55·3	- 0·3	93	0	0	35	•	•	•	•	4	0·44	- 0·10	•	•	•	•	Cheadle.
b, West .. *a* Hereford ..	71	4th	41	2nd	65·3	47·1	55·6	- 0·3	95	0	•	•	•	•	•	•	3	0·40	—	•	•	•	•	Shrewsbury.
a Cirencester ..	70	3, 4	36	1st	65·4	43·7	53·8	- 0·9	83	0	0	37	57·1	•	52·9	•	3	0·30	- 0·21	•	•	•	•	Hereford.
a Bath	72	3rd	40	1st	65·9	46·6	55·6	- 0·5	95	0	•	•	•	•	•	•	3	0·45	- 0·06	8·2	+ 1·5	50	+ 9	Cirencester.
																	3	0·30	- 0·21	7·6	—	47	—	Bath.
5. ENGLAND, S.E.																								
p Kew	75	3rd	43	1st	66·9	48·9	57·3	+ 0·8	107	0	0	39	62·3	+3·9	55·1	+0·2	—	—	—	•	•	•	•	Canterbury
a Marlborough ..											0	34	59·0	+0·6	54·4	+1·1	2	0·13	- 0·32	7·4	+ 0·8	46	+ 5	Kew.
a Margate	67	3, 4	47	7th	64·4	50·6	57·0	+ 1·5	105	0	•	•	•	•	•	•	?3	0·20	- 0·30	7·9	+ 1·8	49	+ 9	Marlborough.
a Wisley, Surrey ..	74	3rd	40	1st	67·0	45·9	55·7	- 1·1	96	0	0	40	57·3	-0·8	53·3	-0·8	3	0·38	- 0·01	6·6	+ 0·2	41	+ 2	Margate.
											3	26	59·7	+0·9	55·2	+0·8	3	0·19	—	8·0	—	50	—	Wisley
p Salisbury (Wilton) ..	73	3rd	40	1st	64·9	44·9	54·2	- 2·5	85	0	0	41	60·9	0·0	55·9	-0·1	—	—	—	7·0	—	44	—	Worthing.
a Tunbridge Wells ..											0	37	61·7	•	•	•	3	0·25	- 0·25	•	•	•	•	Salisbury.
a Dungeness	65	3, 4	48	2nd	61·3	51·4	56·0	+ 0·7	98	0	•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
p Hastings.. ..	67	3rd	48	7th	62·3	51·0	56·3	+ 0·5	100	0	0	44	61·1	•	56·2	•	2	0·21	- 0·11	7·6	—	47	—	Littlestone.
p Southampton	68	3rd	46	1st	63·9	49·7	56·3	- 1·5	100	0	0	40	•	•	•	•	3	0·19	- 0·21	*7·2*	*- 0·5*	*45*	*- 3*	*Hastings.*
a Ventnor	64	4th	47	1st	60·4	50·1	54·9	- 1·6	90	0	•	•	•	•	•	•	4	0·27	- 0·17	8·1	+ 0·9	50	+ 6	Southampton
											0	38	60·7	0·0	57·3	+1·1	4	0·18	- 0·23	7·3	+ 0·4	46	+ 2	Ventnor.
											•	•	59·5	•	55·8	•	—	—	—	*8·3*	—	*52*	—	*Portsmouth.*
LONDON.											•	•	58·9	•	56·7	•	—	—	—	7·8	+ 0·5	48	+ 3	Eastbourne
a Westminster	*73*	*3rd*	*46*	*1st*	*66·1*	*51·3*	*58·2*	*+ 1·5*	*113*	*0*	0	42	•	•	56·8	•	—	—	—	*8·7*	—	*54*	—	*Bournemouth.*
a Greenwich	*79*	*3rd*	*42*	*1st*	*70·7*	*47·4*	*58·2*	*+ 1·1*	*113*	*0*	0	40	•	•	•	•	*2*	*0·13*	*- 0·32*	*7·0*	*- 0·7*	*42*	*- 4*	*Brighton.*
a Hampstead	*71*	*3rd*	*46*	*1, 7*	*64·7*	*49·4*	*56·6*	—	*102*	*0*	1	29	•	•	•	•	*2*	*0·11*	*- 0·34*	*7·7*	*+ 1·3*	*48*	*+ 8*	*Greenwich.*
a Camden Square ..	*79*	*3rd*	*44*	*1st*	*71·1*	*50·1*	*59·9*	—	*125*	*0*	0	37	•	•	•	•	*3*	*0·25*	—	*7·0*	—	*44*	—	*Hampstead.*
											0	41	•	•	•	•	*3*	*0·16*	—	*6·3*	—	*39*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	69	4th	43	2nd	59·9	47·7	53·4	- 0·4	80	0	•	•	•	•	•	•	5	0·84	+ 0·18	•	•	•	•	
p Glasgow	65	4, 5	45	4th	60·7	48·3	54·1	+ 0·7	85	0	0	35	•	•	•	•	5	0·97	+ 0·40	3·8	- 1·6	22	- 9	Glasgow.
p Rothesay ..	71	4th	44	4th	61·6	47·6	54·1	+ 0·4	85	0	•	•	•	•	50·8	-0·5	5	1·15	+ 0·49	•	•	•	•	
a Kilmarnock ..	72	4th	42	4th	61·7	47·0	53·8	0·0	83	0	•	•	•	•	•	•	5	1·20	—	*5·9*	—	*35*	—	*Kilmarnock.*
a Colmonell ..	70	4th	43	4th	61·4	47·6	54·0	+ 0·1	84	0	0	40	•	•	•	•	5	0·82	+ 0·25	•	•	•	•	
p Dumfries ..	70	4th	41	4th	60·4	47·3	53·4	- 1·3	80	0	0	35	57·1	•	52·7	•	5	0·82	+ 0·29	*6·9*	—	*41*	—	*Dumfries.*
p Cally, Gatehouse	72	4th	40	4th	61·4	46·7	53·5	- 0·1	81	0	•	•	•	•	•	•	3	0·64	- 0·02	•	•	•	•	
b I. OF MAN																								
p Douglas	67	4th	45	1, 3	58·3	47·7	52·6	- 0·7	74	0	0	42	•	•	•	•	5	0·85	+ 0·26	9·4	+ 2·1	56	+13	Douglas.
											0	33	55·5	-0·4	49·8	-1·1	—	—	—	*7·8*	—	*47*	—	*Burnley.*
											0	42	•	•	•	•	—	—	—	8·9	—	54	—	Hoylake.
p Aspatria	71	4th	41	2nd	61·9	46·0	53·4	+ 0·1	80	0	0	32	55·6	•	49·8	•	5	0·85	+ 0·31	7·7	—	46	—	Aspatria.
p Newton Rigg ..	70	4th	36	2nd	62·1	45·0	53·0	+ 0·2	77	0	1	29	55·5	-0·8	50·0	-0·7	5	0·43	- 0·09	8·2	+ 1·4	49	+ 8	Newton Rigg.
p Stonyhurst	70	4th	42	2nd	61·6	49·3	55·0	+ 0·8	91	0	0	33	•	•	•	•	5	0·91	+ 0·26	7·7	+ 1·2	46	+ 7	Stonyhurst.
p Blackpool	73	4th	42	2nd	63·4	48·3	55·3	+ 0·8	93	0	1	29	57·1	•	50·3	•	4	0·95	+ 0·46	9·2	+ 2·6	55	+16	Blackpool.
p Manchester (Whit. Pk.)	74	4th	44	1, 2	65·4	49·3	56·8	+ 1·0	104	0	•	•	•	•	•	•	4	0·66	+ 0·18	*6·7*	*+ 1·4*	*40*	*+ 9*	*Whit. Park.*
a Liverpool (Bidston) ..	74	4th	45	1st	62·9	49·7	56·8	+ 1·3	97	0	•	•	•	•	•	•	5	0·65	+ 0·17	*9·4*	—	*57*	—	*Liverpool.*
a Hawarden Bridge ..	74	4th	42	1st	63·3	50·9	56·7	+ 1·0	103	0	0	35	60·1	+0·2	55·4	-0·1	3	0·65	+ 0·21	*8·8*	+ 1·7	*53*	+10	*Southport.*
											0	40	58·4	+1·4	53·2	+0·6	—	—	—	*6·5*	—	*39*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	67	2nd	44	2nd	62·4	48·7	55·1	+ 0·1	92	0	•	•	•	•	•	•	4	0·76	+ 0·32	8·1	+ 1·4	49	+ 8	Llandudno.
a Holyhead	64	4th	47	4th	59·7	49·6	54·3	+ 0·3	86	0	•	•	•	•	•	•	5	1·16	+ 0·70	*8·3*	—	*51*	—	*Holyhead.*
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	7·8	—	48	—	Aberdovey.

For notes see also opposite page.

† At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway used for this, and future reports.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				8·0	—	49	—	
a Llangammarch Wells	69	4th	34	2nd	62·4	43·9	52·5	− 1·2	74	0	1	30	55·1	−0·3	50·6	+0·1	4	1·00	—	6·6	—	41	—	Aberystwyth.
a Pembroke	63	4th	48	4th	57·3	49·7	53·2	− 0·8	78	0	•	•	•	•	•	•	5	1·06	+ 0·62	7·9	+ 0·5	49	+ 3	Llangammarch
p Cardiff	70	3rd	42	1, 2	64·0	47·4	55·1	− 1·6	92	0	0	33	59·3	−0·3	54·1	+0·4	4	0·98	+ 0·43	*8·1*	—	*50*	—	Pembroke.[Wells
b, ENGLAND, S.W.																								*Cardiff.*
a Clifton	72	3, 4	45	1st	65·3	50·0	57·1	+ 0·4	106	0	0	39	•	•	•	•	4	0·51	0·00	*9·7*	—	*60*	—	*Clifton.*
a Shaftesbury	68	3rd	45	1st	61·4	47·9	54·2	+ 0·8	85	0	•	•	57·7	•	54·1	•	4	0·56	+ 0·03	•	•	•	•	Shaftesbury.
a Arlington	65	2, 4	40	1, 2	60·7	45·0	52·3	− 1·3	72	0	•	•	•	•	•	•	6	1·93	+ 1·25	•	•	•	•	Arlington.
a Newquay	*65*	*2nd*	*42*	*2nd*	*59·3*	*47·7*	*53·1*	*− 2·0*	*78*	*0*	•	•	57·8	•	•	•	*5*	*0·60*	*+ 0·25*	6·8	− 0·6	43	− 4	Newquay.
a Cullompton	71	3rd	39	1st	65·1	46·1	54·9	− 0·9	90	0	0	34	60·4	•	•	•	4	0·39	− 0·10	7·8	+ 1·1	48	+ 7	Cullompton.
a Portland	62	3rd	49	1st	59·0	51·6	55·0	− 0·2	91	0	•	•	•	•	•	•	3	0·18	—	*9·4*	—	*59*	—	*Weymouth.*
p Plymouth	65	4th	43	2nd	61·4	48·8	54·7	− 2·0	89	0	0	39	59·5	−0·7	•	•	5	0·40	− 0·08	7·4	+ 0·2	46	+ 1	Plymouth.
p Falmouth	63	2nd	48	1, 2, 4	60·0	49·4	54·3	− 1·1	86	0	•	•	•	•	•	•	5	0·72	+ 0·20	6·6	− 1·1	41	− 7	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	66	4th	47	1, 3	58·4	48·4	53·1	+ 0·6	78	0	•	•	•	•	•	•	4	0·29	− 0·19	•	•	•	•	• •
a Blacksod Point	60	4th	47	1, 3, 6	55·9	48·6	52·0	− 1·7	70	0	•	•	•	•	•	•	6	1·08	+ 1·08	•	•	•	•	• •
p Markree Castle ..	63	4th	39	1st	60·3	45·6	52·4	− 0·6	73	0	0	33	55·2	•	50·8	•	5	0·71	+ 0·08	3·1	− 2·7	19	−16	Markree Castle.
a Birr Castle	68	4th	39	1st	61·3	46·1	53·2	− 1·2	78	0	•	•	•	•	•	•	5	1·12	+ 0·61	*5·9*	+ *0·2*	*36*	+ *1*	*Birr Castle.*
b, East .. { *p* Armagh	65	4th	42	1, 7	60·3	46·3	52·8	− 0·6	76	0	0	40	56·1	−1·1	51·8	−0·9	4	0·50	− 0·06	5·5	− 0·3	33	− 2	Armagh.
a Donaghadee	62	4th	44	1, 3	58·9	47·4	52·8	− 0·9	76	0	•	•	•	•	•	•	5	0·42	− 0·10	•	•	•	•	• •
10. IRELAND, S.											0	37	56·0	−1·1	52·9	−0·4	—	—	—	•	•	•	•	Trinity Coll.
a, East .. { *p* Dublin, City	65	4th	46	1, 3, 4	62·6	48·4	55·0	− 1·0	91	0	0	33	•	•	•	•	—	—	—	6·3	− 0·3	38	− 2	Phœnix Park.
a Kilkenny	63	4th	40	1, 3	60·3	45·6	52·4	− 2·3	73	0	0	43	•	•	•	•	4	0·37	− 0·07	•	•	•	•	Dublin City.
a Waterford	62	6, 7	41	1, 3	59·6	46·6	52·7	− 2·7	75	0	•	•	•	•	•	•	5	1·14	+ 0·61	•	•	•	•	• •
																	5	0·99	+ 0·39	•	•	•	•	• •
b, West .. { *a* Birr Castle	68	4th	39	1st	61·3	46·1	53·2	− 1·2	78	0	•	•	•	•	•	•	5	1·12	+ 0·61	5·9	+ 0·2	36	+ 1	Birr Castle.
a Foynes	66	4th	42	1st	60·5	47·6	53·6	− 1·7	81	0	•	•	•	•	•	•	6	0·91	+ 0·36	•	•	•	•	• •
a Cahir	64	3, 4	38	1st	60·7	45·1	52·4	− 2·5	73	0	•	•	•	•	•	•	5	1·36	—	•	•	•	•	• •
a Killarney	65	1, 3	39	1st	61·5	48·1	54·3	− 0·4	86	0	•	•	•	•	•	•	7	1·50	+ 0·83	•	•	•	•	• •
a Valencia	60	1, 3, 4	39	1st	57·6	47·9	52·4	− 2·7	73	0	•	•	•	•	•	•	7	1·62	+ 0·89	3·4	− 3·1	21	−19	Valencia.
a Roche's Point ..	59	3rd	43	3rd	56·9	47·7	52·0	− 3·1	70	0	•	•	•	•	•	•	6	1·15	+ 0·52	6·3	—	39	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	62	1st	48	1, 6	59·1	49·4	53·9	− 1·8	83	0	•	•	•	•	•	•	4	0·38	+ 0·01	8·4	+ 0·4	53	+ 3	Scilly.
a Jersey, St. Aubins ..	71	3rd	44	1st	64·0	50·3	56·7	− 0·4	103	0	•	•	•	•	•	•	4	0·44	− 0·03	7·6	− 0·4	48	− 3	St. Heliers.
a Guernsey (Villa Carey)	69	3rd	45	1st	63·6	49·7	56·2	− 0·2	99	0	0	41	60·5	+0·5	56·2	+0·5	4	0·36	− 0·14	9·5	+ 1·1	60	+ 7	Guernsey.*

Additional Sunshine Means:—*Bognor, 7·6 hrs. 47 °/₀; Ramsgate, 7·1 hrs. 44 °/₀; Rhyl, 9·0 hrs. 54 °/₀; Salcombe, 7·7 hrs. 48 °/₀; Tenby, 7·8 hrs. (+0·3) 48 °/₀ (+2); Torquay, 8·1 hrs. (+0·6) 51 °/₀ (+4).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, June 7th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	49	49	49·0	+0·9	SCOTLAND, W. ..	{ Lamlash	54	48	50·8	−1·3
	{ Kirkwall	54	50	51·8	+0·3		{ Ballantrae	52	49	50·7	−1·0
	{ Wick	48	46	47·1	−2·6	ENGLAND, N.W. ..	Port Erin	54	51	51·3	+0·5
SCOTLAND, E. ..	{ Cromarty	54	49	51·7	+0·1	ENGLAND, S.W. ..	{ Newquay	55	54	54·5	−1·8
	{ Pennan Bay	55	53	53·7	+1·9		{ Scilly	56	54	55·2	—
	{ Aberdeen, Cove Bay	—	—	—	—		{ Plymouth‡	58	57	57·6	−2·6
ENGLAND, N.E. ..	{ Burnmouth, Berwick	49	48	48·5	−0·5		{ Salcombe	58	54	56·1	+2·2
	{ Scarborough	58	55	56·8	+0·3	IRELAND, N.W. ..	{ Sheephaven	54	52	53·4	−1·5
ENGLAND, E. ..	Shipwash Lightship	58	54	56·5	+1·7		{ Teelin	56	53	54·4	−2·2
ENGLAND, S.E. ..	Eastbourne‡	60	58	58·0	+0·7	IRELAND, S.W. ..	{ Cleggan	54	52	53·3	−0·9
						IRELAND, E.	{ Seafield	63	57	59·0	+2·6
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-THIRD WEEK—June 1st to June 7th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	73	44	58·0	47·4	52·3	+ 1·0	72	+ 5	0	− 1	6	+ 3	1·68	+1·12	3·3	−2·4	19	−14
Eastern.																		
1. SCOTLAND, EAST ...	78	35	63·2	45·8	53·9	+ 1·4	83	+ 9	0	− 1	4	+ 2	0·70	+0·25	7·6	+1·5	44	+ 9
2. ENGLAND, N.E.	75	37	65·7	47·5	56·0	+ 2·5	98	+ 18	0	0	4	+ 1	0·43	−0·01	8·1	+1·9	48	+11
3. ENGLAND, EAST ...	74	39	66·9	48·8	57·3	+ 1·9	107	+ 13	0	0	2	− 1	0·18	−0·35	6·9	+0·1	43	+ 1
4. MIDLAND COUNTIES ...	75	36	66·4	46·4	55·7	+ 0·2	96	+ 1	0	0	3	+ 1	0·34	−0·14	7·6	+1·4	46	+ 9
5. ENGLAND, S.E.	75	40	63·9	49·1	56·0	− 0·5	98	− 4	0	0	3	0	0·22	−0·28	7·5	+0·6	47	+ 4
Western.																		
6. SCOTLAND, WEST ...	72	40	60·7	47·5	53·6	− 0·5	81	− 3	0	0	5	+ 2	0·91	+0·33	6·6	−0·1	39	− 1
7. ENGLAND, N.W.	74	36	62·5	48·5	55·0	+ 0·2	91	+ 2	0	0	4	+ 1	0·78	+0·34	8·2	+1·3	50	+ 8
8. ENGLAND, S.W.	72	34	61·7	48·0	54·3	− 1·5	86	− 11	0	0	4	+ 1	0·77	+0·27	7·3	+0·3	45	+ 2
9. IRELAND, NORTH ...	68	39	59·2	47·1	52·7	− 1·4	75	− 9	0	0	5	+ 2	0·79	+0·23	4·3	−1·7	26	−10
10. IRELAND, SOUTH ...	68	38	60·1	47·0	53·1	− 2·4	78	− 17	0	0	6	+ 3	1·13	+0·58	5·5	−1·0	33	− 6
11. ENGLISH CHANNEL ...	71	44	62·2	49·8	55·6	− 1·0	95	− 7	0	0	4	+ 1	0·39	−0·05	8·5	+0·5	54	+ 3

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 1 Week, June 1st to June 7th, 1913.

0. SCOTLAND, NORTH ...	73	44	*	*	*	*	72	+ 5	0	− 1	6	+ 3	1·68	+ 1·12	3·3	−2·4	19	−14
Eastern.																		
1. SCOTLAND, EAST ...	78	35	*	*	*	*	83	+ 9	0	− 1	4	+ 2	0·70	+ 0·25	7·6	+1·5	44	+ 9
2. ENGLAND, N.E.	75	37	*	*	*	*	98	+ 18	0	0	4	+ 1	0·43	− 0·01	8·1	+1·9	48	+11
3 ENGLAND, EAST ...	74	39	*	*	*	*	107	+ 13	0	0	2	− 1	0·18	− 0·35	6·9	+0·1	43	+ 1
4. MIDLAND COUNTIES ...	75	36	*	*	*	*	96	+ 1	0	0	3	+ 1	0·34	− 0·14	7·6	+1·4	46	+ 9
5. ENGLAND, S.E.	75	40	*	*	*	*	98	− 4	0	0	3	0	0·22	− 0·28	7·5	+0·6	47	+ 4
Western.																		
6. SCOTLAND, WEST ...	72	40	*	*	*	*	81	− 3	0	0	5	+ 2	0·91	+ 0·33	6·6	−0·1	39	− 1
7. ENGLAND, N.W.	74	36	*	*	*	*	91	+ 2	0	0	4	+ 1	0·78	+ 0·34	8·2	+1·3	50	+ 8
8. ENGLAND, S.W.	72	34	*	*	*	*	86	− 11	0	0	4	+ 1	0·77	+ 0·27	7·3	+0·3	45	+ 2
9. IRELAND, NORTH ...	68	39	*	*	*	*	75	− 9	0	0	5	+ 2	0·79	+ 0·23	4·3	−1·7	26	−10
10. IRELAND, SOUTH ...	68	38	*	*	*	*	78	− 17	0	0	6	+ 3	1·13	+ 0·58	5·5	−1·0	33	− 6
11. ENGLISH CHANNEL ...	71	44	*	*	*	*	95	− 7	0	0	4	+ 1	0·39	− 0·05	8·5	+0·5	54	+ 3

THE YEAR.—Aggregates, &c., for the Period of 23 Weeks, December 29th, 1912, to June 7th, 1913.

0. SCOTLAND, NORTH ...	73	21	*	*	*	*	477	− 38	424	−132	112	+ 5	23·37	+1·97	2·7	−0·6	22	− 5
Eastern.																		
1. SCOTLAND, EAST ...	78	11	*	*	*	*	528	− 77	601	− 19	96	+10	13·93	+2·22	3·3	−0·5	28	− 4
2. ENGLAND, N.E.	80	18	*	*	*	*	683	+ 51	406	− 69	90	+10	11·72	+2·80	3·3	−0·7	28	− 6
3. ENGLAND, EAST ...	81	20	*	*	*	*	887	+102	303	−218	83	+ 5	9·54	+0·69	3·7	−0·5	31	− 4
4. MIDLAND COUNTIES ...	81	13	*	*	*	*	806	− 8	392	−141	90	+14	14·13	+3·94	3·2	−0·6	27	− 5
5. ENGLAND, S.E.	81	22	*	*	*	*	905	+ 36	221	−160	85	+11	12·50	+2·39	4·0	−0·2	33	− 2
Western.																		
6. SCOTLAND, WEST ...	73	17	*	*	*	*	648	− 28	323	−102	105	+13	21·86	+3·46	3·0	−0·8	25	− 7
7. ENGLAND, N.W.	76	10	*	*	*	*	713	0	298	− 88	100	+16	17·07	+4·34	3·3	−0·5	28	− 4
8. ENGLAND, S.W.	81	19	*	*	*	*	837	− 25	221	− 80	104	+21	21·25	+6·67	3·6	−0·7	30	− 6
9. IRELAND, NORTH ...	69	21	*	*	*	*	707	− 37	297	− 48	115	+17	18·96	+4·44	3·2	−0·5	27	− 5
10. IRELAND, SOUTH ...	73	22	*	*	*	*	851	− 63	243	− 16	118	+29	23·54	+7·47	3·4	−0·7	29	− 6
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	1,053	+ 32	38	− 71	99	+ 9	15·22	+2·86	4·1	−1·0	34	− 8

M.O., June 11, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 24. TWENTY-FOURTH WEEK, SUNDAY, JUNE 8TH, TO SATURDAY, JUNE 14TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The general conditions, after being unsettled, with occasional rain, early in the week, became fine and dry generally Over the south and south-east of England there was very little rain at any time, many stations being quite dry after Sunday. Local thunderstorms occurred in Norfolk on the 8th.

Temperature was below the average, the divergence being nearly 4° in some parts of Ireland and Scotland, but decreasing to less than 1° in England E. The highest of the maxima were recorded very generally on the 14th, and ranged from 75° in England E. to 67° in Ireland N. and Scotland W. The lowest of the minima, which were registered mostly early in the week, except in Scotland, varied from 33° in Scotland N. and 35° in Ireland N. to 41° in most of the western districts, and to 48° in the English Channel. The lowest grass readings were 29° at Markree Castle, and 30° at West Linton, Marlborough, Wisley and Dublin. At several stations in England the temperature of the soil at a depth of 4 feet was a little above the normal, but at a depth of 1 foot it was below it very generally, as much as 3° at a few places in the north and east.

Mean Temperature of the Sea. At all stations except Lerwick, Pennan Bay and Scarborough the temperature of the water was lower than during the corresponding week of last year, and on most parts of the coast it was below the normal. The means for the week ranged from 59° at Seafield, 58° at Eastbourne, and 57° at the Shipwash Lightship to about 48° at Wick and Burnmouth.

Rainfall was less than the mean over the eastern section, and also in England S.W. and the English Channel, but above it in Ireland, the north-west of England, and in the west and north of Scotland. At Fort William 1·2 in. on the 8th was followed by 1·8 in. on the 9th, and on the latter date 1·0 in. fell at Aberdovery and Fort Augustus, and 1·4 in. at Llangammarch Wells.

Bright Sunshine exceeded the normal in Scotland N. and E. and England E. and equalled it in England N.E., but elsewhere it was below it. In Ireland N. and the English Channel, where the mean daily amount was little more than 3½ hours, the percentage of the possible was only 21 and 23, but in Scotland E. and England E. the daily mean was more than 7 hours, and the percentage of the possible 41 and 46 respectively.

Barometer and Wind. During the earlier days of the week the pressure distribution over these Islands was cyclonic, and the wind mainly Westerly or South-Westerly, varying in force from a moderate breeze to a high wind or gale on several parts of the southern and western and extreme northern coasts. After Tuesday, however, a high pressure system extended gradually over the Kingdom from the South-Westward, and during the remainder of the period the distribution was anticyclonic, and the wind very light and variable. By Saturday the central portion of the anticyclone lay to the eastward of this country, and the general direction of the wind was Southerly.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 91.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Very deficient	Deficient
	Rainfall ...	Heavy	Moderate	Light	Moderate	Moderate	Very light	Heavy	Heavy	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Moderate	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 2 weeks from June 1st, 1913.	Warmth ...	0 * 1	0 * 1	1 * 1	1 * 0	0 * 1	0 * 1	0 * 1	0 * 1	0 * 2	0 * 2	0 * 2	0 * 1
	Rainfall ...	2 * 0	1 * 0	0 * 1	0 * 1	0 * 0	0 * 2	2 * 0	2 * 0	1 * 0	0 * 0	1 * 0	0 * 0
	Sunshine ...	0 * 1	2 * 0	1 * 0	0 * 0	1 * 0	0 * 1	0 * 0	1 * 1	0 * 1	0 * 2	0 * 1	0 * 1

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(30490—24.) Wt. 196—786. 450. 6/13. D & S. Gp. 30. Sch 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts	Districts and Names of Stations reporting Temperature of Air and Rainfall	Temperature. In Degrees Fahrenheit. Highest observed	Date	Lowest observed	Date	Mean for the Week: Of Highest each day	Of Lowest each day	For whole of each day	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees): Above 42°	Below 42°	Grass Min.: Ground Frosts	Lowest Reading	Earth 1 ft.: Mean	Difference from Average	Earth 4 ft.: Mean	Difference from Average	Rainfall: No. of Rain-Days	Rainfall in the Week	Difference from Average	Bright Sunshine. Hours per Day: Daily Mean	Difference from Average	Percentage of possible duration	Difference from Average	Stations reporting Sunshine and Temperature on the Grass and in the Ground
0. SCOTLAND, N.		°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
a, Islands	*p Baltasound* .. S	*53*	*9, 10*	*39*	*12, 13*	*51·1*	*43·4*	*47·0*	—	*35*	*0*	•	•	50·2	•	•	•	*5*	*0·51*	—	*6·3*	—	*34*	—	*Baltasound.*
	a Lerwick..	56	14th	38	13th	51·6	43·4	47·2	- 1·5	36	0	•	•	•	•	•	•	5	0·79	—	7·0	+ 1·8	39	+10	Deerness.
	a Stornoway	57	13, 14	37	13th	55·1	43·4	48·8	- 2·7	48	0	•	•	•	•	•	•	6	0·95	+ 0·42	6·5	+ 0·3	36	+ 2	Stornoway.
	a Castlebay, Barra Isd.‡..	*56*	*13th*	*41*	*13th*	*53·0*	*44·7*	*48·6*	*- 3·6*	*46*	*0*	•	•	•	•	•	•	*5*	*0·67*	—	*5·5*	—	*32*	—	*Castlebay.*
b, Main-land.	a Wick	60	14th	33	13th	54·6	42·4	48·1	- 3·4	43	0	•	•	•	•	•	•	4	0·43	0·00	•	•	•	•	• •
	p Strathpeffer .. S	70	14th	41	9, 10	59·4	43·0	50·6	- 2·7	60	0	•	•	•	•	•	•	4	0·77	+ 0·34	6·4	+ 1·0	36	+ 6	Strathpeffer.
	p Glencarron .. S											•	•	•	•	•	•	—	—	—	•	•	•	•	• •
	p Fort Augustus.. S	63	14th	41	12th	56·1	43·7	49·5	- 3·6	53	0	•	•	•	•	•	•	?4	1·66	+ 1·20	4·2	- 0·3	24	- 2	Fort Augustus.
	p Fort William .. S	64	14th	39	13th	56·7	44·0	49·9	- 4·4	55	0	•	•	•	•	•	•	5	3·46	+ 2·62	•	•	•	•	• •
1. SCOTLAND, E.												0	33	54·0	-0·8	50·7	-0·3	—	—	—	7·0	—	40	—	Crathes S.
	p Gordon Castle.. S	70	14th	39	13th	60·4	43·0	51·1	- 2·6	64	0	•	•	•	•	•	•	5	0·38	- 0·10	*7·3*	—	*42*	—	*Gordon Castle.*
	a Nairn	69	14th	41	10, 12, 13	58·8	42·4	49·9	- 3·7	55	0	•	•	•	•	•	•	5	0·63	+ 0·25	7·7	—	44	—	Nairn.
	a Aberdeen .. S	63	14th	42	13th	59·7	45·1	51·9	- 0·8	69	0	•	•	•	•	49·8	-0·1	2	0·36	- 0·06	8·2	+ 2·0	47	+11	Aberdeen.
	a Balmoral .. S	67	14th	36	13th	62·3	40·4	50·6	- 0·9	67	4	0	32	•	•	•	•	2	0·06	- 0·42	•	•	•	•	Balmoral.
	p Crieff .. .. S	67	14th	38	13th	58·4	42·0	49·6	- 5·6	53	0	•	•	•	•	•	•	4	0·32	- 0·32	6·7	—	39	—	Balruddery.
	a Leith	68	14th	42	13th	59·1	46·0	52·1	- 2·6	71	0	•	•	•	•	•	•	2	0·12	- 0·28	•	•	•	•	• •
	p West Linton .. S	65	14th	36	12th	56·0	41·3	48·1	- 4·1	46	2	1	30	•	•	•	•	4	0·68	—	*4·7*	—	*28*	—	*West Linton.*
	p Marchmont .. S	66	14th	38	12th	57·6	42·7	49·6	- 3·0	53	0	0	33	52·3	-3·4	•	•	1	0·27	- 0·24	6·0	- 0·1	35	- 1	Marchmont.
2. ENGLAND, N.E.																									
a, North	a Alnwick Castle ..	64	14th	40	13th	58·6	44·9	51·3	- 2·2	65	0	0	36	52·4	-3·6	51·2	-1·0	2	0·16	- 0·28	6·4	—	38	—	Cockle Park.
	a Shields	64	14th	42	12th	59·1	44·9	51·5	- 1·9	67	0	•	•	•	•	•	•	3	0·23	- 0·23	•	•	•	•	• •
	p Durham..	65	14th	42	12th	58·6	44·4	51·0	- 3·7	63	0	0	37	•	•	•	•	2	0·13	- 0·29	5·4	- 0·3	32	- 2	Durham.
	p Rounton..	67	14th	39	12th	59·6	44·4	51·5	- 2·0	67	0	0	32	55·9	•	•	•	3	0·12	- 0·33	•	•	•	•	Rounton.
	a West Witton	*67*	*14th*	*42*	*11, 12*	*57·4*	*44·3*	*50·4*	—	*59*	*0*	0	34	54·7	•	49·9	•	*2*	*0·38*	—	•	•	•	•	*West Witton.*
	p Scarborough	63	10, 14	45	12th	59·4	46·7	52·6	- 2·0	74	0	•	•	•	•	51·8†	•	2	0·25	- 0·17	7·2	—	43	—	Scarborough.
	p York	69	14th	44	12th	61·0	47·0	53·5	- 3·0	81	0	•	•	55·2	-1·1	52·8	+0·5	3	0·07	- 0·41	5·1	- 0·7	31	- 4	York.
												0	38	55·7	-1·1	52·0	+0·7	—	—	—	*3·7*	—	*22*	—	*Hull.*
b, South	a Spurn Head	61	10, 12	46	9th	58·7	48·1	53·0	- 1·7	77	0	•	•	•	•	•	•	4	0·27	- 0·07	*?7·8*	—	*47*	—	*Spurn Head.*
	a Lincoln	70	14th	44	9th	63·1	47·6	54·8	- 2·7	90	0	•	•	56·7	-1·0	51·0	+1·1	4	0·21	- 0·24	•	•	•	•	Lincoln.
	a Fulbeck	71	14th	43	9th	63·4	46·1	54·2	- 2·5	85	0	0	34	58·2	-2·7	53·9	-0·4	2	0·04	- 0·40	5·5	—	33	—	Rauceby.
3. ENGLAND, E.												•	•	•	•	•	•	—	—	—	7·6	—	46	—	Skegness.
												0	39	58·3	-1·5	55·5	+0·5	—	—	—	*8·7*	—	*53*	—	*Lowestoft.*
a, North	p Cromer	67	14th	43	8th	62·1	46·7	53·9	- 1·5	83	0	•	•	•	•	•	•	4	0·23	—	8·7	—	52	•	Cromer.
	p Little Massingham ..	75	10th	42	9th	66·0	45·4	55·0	- 1·5	91	0	0	40	•	•	•	•	3	0·23	- 0·28	7·5	+ 0·9	45	+ 6	Lit. Massingham.
	a Yarmouth	67	10th	44	9th	62·3	48·3	54·8	- 0·7	90	0	•	•	58·6	-3·6	56·0	-1·5	3	0·45	+ 0·05	9·0	—	55	—	Yarmouth.
	a Norwich	69	14th	42	14th	65·4	46·3	55·2	- 0·8	92	0	0	37	58·3	•	•	•	3	0·26	—	*8·0*	—	*49*	—	*Norwich.*
	p Geldeston	67	10th	38	14th	64·0	45·6	54·2	- 1·7	85	0	•	•	•	•	•	•	4	0·41	- 0·02	8·1	+ 1·1	49	+ 7	Geldeston.
b, South	p Cambridge	69	10th	42	9th	65·3	46·9	55·5	- 2·1	95	0	0	37	58·6	-1·0	56·0	+0·5	3	0·17	- 0·30	7·1	+ 0·4	43	+ 3	Cambridge.
	a Felixstowe	*67*	*10th*	*46*	*9th*	*63·3*	*50·0*	*56·2*	*- 0·3*	*99*	*0*	•	•	•	•	•	•	*2*	*0·13*	—	*7·5*	—	*46*	—	*Felixstowe.*
	a Clacton-on-Sea ..	67	10th	45	9th	63·4	49·7	56·1	- 0·2	99	0	0	37	57·5	-1·1	56·4	+0·5	2	0·24	—	7·4	—	45	—	Clacton.
	a Rothamsted	67	14th	42	9th	63·7	47·6	55·1	- 1·3	92	0	•	•	•	•	•	•	2	0·31	- 0·17	6·0	- 0·5	37	- 3	Rothamsted.
	a Shocburyness	*67*	*10th*	*46*	*9th*	*64·0*	*50·0*	*56·5*	*- 2·1*	*102*	*0*	0	37	59·9	-1·0	•	•	*1*	*0·02*	*- 0·37*	*7·3*	—	*45*	—	*Southend.*
	p Tottenham	68	10, 14	46	9th	65·6	50·6	57·6	- 0·1	109	0	0	42	•	•	56·2	-0·1	1	0·09	—	6·0	—	37	—	Tottenham.
4. MIDLAND COUNTIES.												0	40	55·1	-2·8	51·0	0·0	—	—	—	*5·4*	—	*32*	—	*Huddersfield.*
a, East	a Harrogate	64	14th	41	12th	58·3	44·3	50·8	- 3·6	62	0	0	35	52·9	-1·0	52·0	0·0	2	0·13	- 0·41	5·5	—	33	—	Harrogate.
	a Bawtry	72	14th	44	9th	62·3	47·0	54·1	- 2·7	85	0	0	36	55·5	•	53·5	•	4	0·08	- 0·33	5·7	—	34	—	Worksop.
	p Buxton	*64*	*14th*	*43*	*9, 12, 13*	*56·1*	*44·1*	*49·7*	*- 3·3*	*54*	*0*	0	39	53·5	-2·3	49·9	-0·2	*5*	*1·33*	*+ 0·61*	*5·4*	*- 0·1*	*33*	*- 1*	*Buxton.*
	a Nottingham	71	14th	42	9th	63·3	47·3	54·7	- 1·8	89	0	0	37	56·7	-1·6	54·4	+0·6	3	0·49	+ 0·05	5·5	—	33	—	Nottingham.
	p Birmingham, Edgbsn.	66	14th	43	9th	61·0	47·9	54·0	- 2·4	81	0	0	38	51·3	-2·0	49·8	+0·2	3	0·74	+ 0·23	5·1	—	31	—	Birmingham.
	a Raunds	72	14th	40	9th	66·0	46·1	55·4	- 1·5	94	0	0	33	57·9	•	53·3	•	3	0·21	—	•	•	•	•	Raunds.
	p Oxford	67	14th	44	9th	63·9	48·7	55·8	- 1·6	97	0	0	39	•	•	•	•	3	0·16	- 0·33	5·0	- 1·5	31	- 9	Oxford.
												0	39	54·6	-1·1	51·3	+0·6	—	—	—	7·1	—	43	—	Sheffield.
b, West	a Cheadle	66	14th	40	8th	60·7	45·7	52·7	- 2·3	75	0	0	38	•	•	•	•	5	0·79	+ 0·21	•	•	•	•	Cheadle.
	p Shrewsbury	67	14th	44	9th	63·1	46·7	54·3	- 2·6	86	0	0	38	•	•	•	•	2	0·39	—	•	•	•	•	Shrewsbury.
	a Hereford	? 70	14th	44	9th	65·1	47·4	55·6	- 1·7	95	0	•	•	•	•	•	•	3	0·19	- 0·31	•	•	•	•	Hereford.
	a Cirencester	68	13, 14	39	8th	62·7	45·1	53·3	- 2·6	79	0	0	39	55·7	•	53·5	•	3	0·19	- 0·34	4·5	- 2·1	28	-13	Cirencester.
	a Bath	65	8, 13	44	9, 11	63·4	47·9	55·1	- 2·3	92	0	•	•	•	•	•	•	3	0·22	- 0·31	4·5	—	28	—	Bath.
5. ENGLAND, S.E.												0	38	59·8	+1·0	56·7	+0·5	—	—	—	•	•	•	•	Canterbury.
	p Kew	70	14th	45	9th	65·0	50·7	57·4	- 0·1	108	0	0	37	57·5	-1·6	54·8	+0·5	1	0·08	- 0·40	4·6	- 1·9	28	-12	Kew.
	a Marlborough	67	14th	38	9th	63·4	45·7	53·9	- 1·6	83	0	1	30	•	•	53·0	•	1	0·01	- 0·52	4·5	- 1·6	28	-10	Marlborough.
	a Margate	65	9, 12	46	9th	63·4	49·4	55·9	- 1·0	97	0	0	42	56·9	-1·5	54·0	-1·1	0	0·00	- 0·40	6·8	+ 0·6	42	+ 3	Margate.
	a Wisley, Surrey ..	68	14th	42	9th	64·7	48·6	56·1	- 2·2	99	0	1	30	58·2	-1·4	55·3	-0·2	1	0·07	—	5·3	—	33	—	Wisley
												0	40	58·6	-2·8	56·1	+0·1	—	—	—	4·7	—	29	—	Worthing.
	p Salisbury (Wilton) ..	66	12th	39	9th	63·4	45·7	53·9	- 4·3	83	0	0	36	60·6	•	•	•	3	0·06	- 0·47	•	•	•	•	Salisbury.
	a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
	a Dungeness	63	14th	41	9th	60·6	50·1	55·0	- 1·7	91	0	•	•	•	•	•	•	1	0·02	- 0·31	5·1	—	31	—	Littlestone.
	p Hastings..	66	14th	44	9th	60·7	49·9	54·9	- 2·2	90	0	0	38	53·9	•	56·5	•	1	0·03	- 0·37	*5·0*	*- 2·7*	*31*	*-16*	*Hastings.*
	p Southampton	65	11th	44	9th	63·1	50·4	56·3	- 2·8	100	0	0	40	•	•	•	•	3	0·05	- 0·40	4·3	- 2·8	26	-17	Southampton
	a Ventnor	63	14th	47	9th	60·4	51·0	55·4	- 2·4	94	0	•	•	•	•	•	•	1	0·01	- 0·42	4·0	- 2·6	25	-16	Ventnor.
												0	42	59·0	-2·4	57·1	-0·1	—	—	—	*4·8*	—	*29*	—	*Portsmouth.*
												•	•	58·4	•	56·3	•	—	—	—	5·7	- 1·6	35	-10	Eastbourne.
LONDON.												•	•	57·7	•	56·5	•	—	—	—	*4·7*	—	*29*	—	*Bournemouth.*
												0	40	•	•	56·5	•	—	—	—	*4·8*	*- 2·6*	*30*	*-16*	*Brighton.*
	a Westminster	*68*	*10, 14*	*46*	*9th*	*65·0*	*50·9*	*57·5*	*- 0·7*	*109*	*0*	0	40	•	•	•	•	*1*	*0·09*	*- 0·39*	*4·6*	*- 1·0*	*28*	*- 6*	*Westminster*
	a Greenwich	*71*	*14th*	*43*	*9th*	*67·9*	*48·4*	*57·5*	*- 1·2*	*109*	*0*	0	31	•	•	•	•	*1*	*0·14*	*- 0·32*	*5·1*	*- 1·4*	*31*	*- 9*	*Greenwich.*
	a Hampstead	*67*	*14th*	*42*	*9th*	*64·0*	*47·7*	*55·3*	—	*93*	*0*	0	37	•	•	•	•	*1*	*0·10*	—	*5·4*	—	*33*	—	*Hampstead.*
	a Camden Square ..	*75*	*14th*	*44*	*9th*	*69·3*	*49·7*	*58·8*	—	*118*	*0*	0	41	•	•	•	•	*1*	*0·19*	—	*5·0*	—	*31*	—	*Camden Square.*
6. a, SCOTLAND, W.																									
	a Poltalloch .. S	65	14th	42	13th	56·4	46·1	50·0	- 4·5	62	0	•	•	•	•	•	•	4	1·53	+ 0·85	•	•	•	•	• •
	p Glasgow	66	14th	44	12th	56·0	45·9	50·6	- 4·1	60	0	0	37	•	•	•	•	6	0·76	+ 0·18	5·3	- 0·1	31	- 1	Glasgow.
	p Rothesay .. S	67	14th	43	12, 13	57·4	45·6	51·1	- 3·9	64	0	•	•	•	•	51·2	-1·0	6	1·35	+ 0·67	•	•	•	•	• •
	a Kilmarnock	65	14th	42	12th	56·6	45·7	50·8	- 4·1	62	0	•	•	•	•	•	•	5	0·83	—	*4·3*	—	*25*	—	*Kilmarnock.*
	a Colmonell .. S	66	14th	43	13th	57·7	46·3	51·6	- 3·3	67	0	0	40	•	•	•	•	5	1·07	+ 0·51	•	•	•	•	• •
	p Dumfries .. S	64	14th	42	12th	57·6	45·6	51·2	- 5·1	64	0	0	34	55·1	•	53·4	•	4	0·78	+ 0·27	*5·0*	—	*29*	—	*Dumfries.*
	p Cally, Gatehouse S	64	14th	41	12th	57·7	45·0	50·9	- 3·9	62	0	•	•	•	•	•	•	4	1·07	+ 0·42	•	•	•	•	• •
b I. OF MAN																									
	p Douglas	62	14th	43	12th	56·7	46·9	51·5	- 3·2	67	0	0	40	•	•	•	•	5	1·15	+ 0·56	6·6	- 0·7	39	- 5	Douglas.
7. a, ENGLAND, N.W.												0	40	53·6	-2·6	50·7	-0·8	—	—	—	*4·1*	—	*21*	—	*Burnley.*
												0	45	•	•	•	•	—	—	—	4·9	—	29	—	Hoylake.
	p Aspatria..	65	14th	42	12th	57·3	46·0	51·3	- 3·2	65	0	0	37	53·9	•	50·5	•	4	1·23	+ 0·68	4·5	—	27	—	Aspatria.
	p Newton Rigg	65	14th	41	12th	57·1	44·4	50·3	- 3·8	58	0	0	34	54·1	-3·1	50·7	-1·1	5	1·07	+ 0·60	4·7	- 2·2	28	-13	Newton Rigg.
	p Stonyhurst	65	14th	45	12th	57·9	47·0	52·1	- 3·3	71	0	0	39	•	•	•	•	4	0·98	+ 0·32	3·7	- 2·8	22	-17	Stonyhurst.
	p Blackpool	65	14th	47	8th	57·6	48·7	52·8	- 3·1	76	0	0	39	55·5	•	51·4	•	3	0·43	- 0·04	4·9	- 1·7	29	-10	Blackpool.
	p Manchester (Whit. Pk.)	68	14th	46	9th	60·1	48·1	53·7	- 3·3	82	0	•	•	•	•	•	•	3	0·58	+ 0·08	*4·0*	*- 1·3*	*24*	*- 8*	*Whit. Park.*
	a Liverpool (Bidston) ..	68	14th	46	9th	59·6	47·7	53·2	- 2·6	78	0	•	•	•	•	•	•	5	0·73	+ 0·22	*5·7*	—	*34*	—	*Liverpool.*
	a Hawarden Bridge ..	69	14th	46	9th	61·6	49·3	55·0	- 1·9	91	0	0	44	58·7	-2·0	56·1	-0·5	5	0·38	- 0·06	*5·1*	*- 1·9*	*31*	*-11*	*Southport.*
b, NORTH WALES.												0	43	55·2	-2·5	54·5	+0·7	—	—	—	*4·2*	—	*25*	—	*Manchester (City)*
	p Llandudno	66	14th	46	8th	59·3	48·3	53·4	- 3·2	80	0	•	•	•	•	•	•	3	0·89	+ 0·44	5·5	- 1·3	33	- 8	Llandudno.
	a Holyhead	64	14th	46	9th	58·4	48·9	53·3	- 1·8	79	0	•	•	•	•	•	•	5	0·70	+ 0·22	*5·7*	—	*35*	—	*Holyhead.*
	p Bettws-y-Coed ..	62	14th	43	9, 11, 12	60·1	45·0	52·0	- 3·7	70	0	0	45	53·7	-1·9	50·7	-0·9	3	2·55	—	3·4	—	21	—	Bettws-y-Coed.
												•	•	•	•	•	•	—	—	—	5·0	—	31	—	Aberdovey.

For notes see also opposite page.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway used for this, and future reports.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				5·1	—	31	—	
a Llangammarch Wells	66	14th	41	9th	61·1	46·3	53·2	– 1·9	78	0	0	34	54·4	–1·2	51·3	0·0	4	1·59	—	5·1	—	31	—	Aberystwyth.
a Pembroke	62	14th	48	9, 12	56·7	50·0	53·1	– 2·1	78	0	•	•	•	•	•	•	4	0·31	– 0·14	5·3	– 2·2	33	–14	Llangammarch
p Cardiff	64	12, 14	44	9th	60·7	48·0	53·9	– 4·0	83	0	0	39	57·3	–2·8	54·7	–0·3	4	0·55	– 0·02	*6·1*	—	*37*	—	Pembroke. [Wells *Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	65	12, 13	48	9th	62·4	50·1	55·8	– 2·1	97	0	0	45	•	•	•	•	2	0·35	– 0·18	*6·3*	—	*39*	—	*Clifton.*
a Shaftesbury	65	13, 14	43	9th	61·1	47·0	53·6	– 1·8	81	0	•	•	56·0	•	54·2	•	4	0·12	– 0·42	•	•	•	•	Shaftesbury.
a Arlington	64	14th	41	8th	58·1	45·7	51·5	– 3·1	67	0	•	•	•	•	•	•	4	0·95	+ 0·25	•	•	•	•	Arlington.
a Newquay	*62*	*14th*	*49*	*14th*	*57·4*	*50·6*	*53·8*	*– 2·7*	*83*	*0*	•	•	57·2	•	•	•	*5*	*0·25*	*– 0·14*	2·8	– 4·6	17	–28	Newquay.
a Cullompton	68	14th	43	11th	64·0	47·7	55·3	– 1·9	93	0	0	37	58·8	•	•	•	5	0·28	– 0·19	3·4	– 3·2	21	–20	Cullompton.
a Portland	61	14th	50	10th	57·1	51·3	54·0	– 2·2	84	0	•	•	•	•	•	•	2	0·03	—	*5·6*	—	*35*	—	*Weymouth.*
p Plymouth	63	12th	48	9th	59·7	50·4	54·7	– 3·3	89	0	0	40	57·5	–2·9	•	•	3	0·09	– 0·42	2·8	– 4·3	17	–27	Plymouth.
p Falmouth	60	14th	48	9, 11	58·1	50·4	54·0	– 2·7	84	0	•	•	•	•	•	•	3	0·17	– 0·38	2·8	– 4·8	17	–30	Falmouth.
9. IRELAND, N.																								
a Malin Head	64	14th	44	13th	54·9	46·1	50·2	– 3·4	57	0	•	•	•	•	•	•	4	0·40	– 0·08	•	•	•	•	
a, West .. *a* Blacksod Point ..	61	14th	42	12th	56·0	47·1	51·2	– 3·6	64	0	•	•	•	•	•	•	5	0·86	+ 0·25	•	•	•	•	
p Markree Castle ..	63	14th	35	12th	57·9	44·7	50·8	– 3·5	62	0	1	29	55·0	•	51·4	•	5	1·00	+ 0·35	2·9	– 2·8	17	–17	Markree Castle.
a Birr Castle	65	14th	42	12th	58·4	46·0	51·8	– 3·9	69	0	•	•	•	•	•	•	5	1·03	+ 0·51	*3·8*	*– 1·8*	*23*	*–11*	*Birr Castle.*
b, East .. *p* Armagh	67	14th	39	12th	57·9	44·6	50·8	– 3·9	62	0	0	34	55·3	–2·5	52·3	–1·2	6	0·83	+ 0·27	4·2	– 1·5	25	– 9	Armagh.
a Donaghadee	63	14th	41	12th	57·6	45·9	51·3	– 3·4	65	0	•	•	•	•	•	•	5	0·56	+ 0·03	•	•	•	•	
10. IRELAND, S.											0	38	55·8	–2·2	53·3	–0·9	—	—	—	•	•	•	•	Trinity Coll.
p Dublin, City	67	14th	43	12th	60·4	48·7	54·1	– 3·3	85	0	1	30	•	•	•	•	—	—	—	5·3	– 1·2	32	– 8	Phœnix Park.
a, East .. *a* Kilkenny	64	14th	44	9, 14	59·0	47·0	52·6	– 3·4	74	0	0	41	•	•	•	•	3	0·27	– 0·16	•	•	•	•	Dublin City.
a Waterford	67	14th	45	8th	60·3	48·1	53·8	– 2·9	83	0	•	•	•	•	•	•	3	0·37	– 0·17	•	•	•	•	
											•	•	•	•	•	•	1	0·31	– 0·31	•	•	•	•	
a Birr Castle	65	14th	42	12th	58·4	46·0	51·8	– 3·9	69	0	•	•	•	•	•	•	5	1·03	+ 0·51	3·8	– 1·8	23	–11	Birr Castle.
a Foynes	63	13th	41	12th	54·6	46·6	50·3	– 6·2	58	0	•	•	•	•	•	•	6	1·39	+ 0·84	•	•	•	•	
b, West .. *a* Cahir	67	14th	43	8th	59·0	47·4	52·8	– 3·1	76	0	•	•	•	•	•	•	5	0·76	—	•	•	•	•	
a Killarney	69	14th	45	8th	61·0	49·3	54·7	– 1·1	89	0	•	•	•	•	•	•	4	0·83	+ 0·16	•	•	•	•	
a Valencia	61	14th	45	8th	56·4	49·4	52·7	– 3·5	75	0	•	•	•	•	•	•	6	0·63	– 0·10	3·8	– 2·7	23	–16	Valencia.
a Roche's Point	62	10th	44	8th	58·0	48·0	52·7	– 3·5	75	0	•	•	•	•	•	•	4	0·17	– 0·48	5·3	—	33	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	60	14th	48	9th	58·1	49·7	53·6	– 3·1	81	0	•	•	•	•	•	•	2	0·05	– 0·34	2·9	– 5·2	18	–32	Scilly.
a Jersey, St. Aubins ..	69	14th	49	9th	60·6	51·7	55·8	– 2·4	97	0	•	•	•	•	•	•	3	0·14	– 0·33	3·5	– 4·5	22	–28	St. Heliers.
a Guernsey (Villa Carey	65	14th	48	9th	59·7	49·9	54·5	– 3·0	88	0	0	43	58·3	–2·5	56·4	–0·4	4	0·18	– 0·32	4·6	– 3·7	29	–23	Guernsey.*

Additional Sunshine Means:—*Bognor, 4·1 hrs. 26 %; Ramsgate, 7·1 hrs. 44 %; Rhyl, 5·0 hrs. 30 %; Salcombe, 5·2 hrs. 32 %; Tenby, 6·3 hrs. (–1·1) 39 % (–8); Torquay, 3·6 hrs. (–4·1) 22 % (–25).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, June 14th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	49	49	49·0	+0·3	SCOTLAND, W. ..	Lamlash	52	48	49·9	–2·9
	Kirkwall	53	50	51·5	–0·4		Ballantrae	53	50	51·5	–0·6
	Wick	49	47	48·0	–2·4	ENGLAND, N.W. ..	Port Erin	53	51	51·5	0·0
	Cromarty	53	47	50·2	–2·4		Newquay	55	55	55·0	–2·0
SCOTLAND, E. ..	Pennan Bay	56	52	52·7	+0·7	ENGLAND, S.W. ..	Scilly	56	54	54·9	—
	Aberdeen, Cove Bay	50	48	49·1	–1·2		Plymouth‡	56	54	55·0	–0·9
							Salcombe	59	55	56·1	+1·5
ENGLAND, N.E. ..	Burnmouth, Berwick	48	46	47·5	–2·3		Sheephaven	54	53	53·4	–2·2
	Scarborough	56	52	53·9	+2·5	IRELAND, N.W. ..	Teelin	57	51	52·9	–4·7
ENGLAND, E. ..	Shipwash Lightship	59	55	57·3	+1·9		Cleggan	54	51	53·0	–1·9
ENGLAND, S.E. ..	Eastbourne‡	59	57	58·1	+0·1	IRELAND, S.W. ..	Seafield	61	56	58·9	+2·2
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-FOURTH WEEK—June 8th to June 14th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	70	33	55·6	43·3	49·0	− 3·2	49	− 24	0	− 1	5	+ 1	1·34	+0·72	6·0	+0·6	34	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	70	36	59·0	42·9	50·4	− 3·1	59	− 22	0	0	3	− 1	0·35	−0·15	7·1	+1·2	41	+ 7
2. ENGLAND, N.E.	71	39	60·2	46·0	52·6	− 1·8	74	− 13	0	0	3	+ 1	0·16	−0·25	6·2	0·0	37	0
3. ENGLAND, EAST ...	75	38	64·2	47·5	55·3	− 0·8	93	− 6	0	0	3	0	0·27	−0·26	7·5	+1·0	46	+ 6
4. MIDLAND COUNTIES ...	72	39	62·7	46·7	54·2	− 2·0	85	− 14	0	0	3	0	0·33	−0·13	5·4	−0·7	33	− 4
5. ENGLAND, S.E.	70	38	62·7	49·1	55·4	− 1·8	94	− 12	0	0	1	− 2	0·04	−0·43	5·0	−1·7	31	−11
Western.																		
6. SCOTLAND, WEST ...	67	41	57·0	45·9	51·1	− 3·9	64	− 27	0	0	5	+ 2	1·07	+0·43	6·0	−0·6	35	− 3
7. ENGLAND, N.W.	69	41	58·9	47·3	52·7	− 3·0	75	− 21	0	0	4	+ 1	0·95	+0·48	4·6	−2·1	27	−13
8. ENGLAND, S.W.	68	41	59·9	48·7	53·9	− 2·6	83	− 19	0	0	4	+ 1	0·44	−0·10	3·9	−3·0	24	−18
9. IRELAND, NORTH ...	67	35	57·1	45·7	51·0	− 3·9	63	− 26	0	0	5	+ 1	0·78	+0·18	3·6	−2·3	21	−14
10. IRELAND, SOUTH ...	69	41	58·6	47·8	52·8	− 3·5	76	− 24	0	0	4	+ 1	0·64	+0·08	4·6	−2·0	28	−12
11. ENGLISH CHANNEL ...	69	48	59·5	50·4	54·6	− 2·8	88	− 19	0	0	3	− 1	0·12	−0·29	3·7	−4·4	23	−27

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 2 Weeks, June 1st to June 14th, 1913.

0. SCOTLAND, NORTH ...	73	33	*	*	*	*	124	− 16	0	− 2	11	+ 4	2·88	+ 1·70	4·8	−0·8	27	− 5
Eastern.																		
1. SCOTLAND, EAST ...	78	35	*	*	*	*	142	− 13	0	− 1	7	+ 1	1·05	+ 0·10	7·4	+1·4	42	+ 8
2. ENGLAND, N.E.	75	37	*	*	*	*	172	+ 5	0	0	7	+ 2	0·59	− 0·26	7·1	+0·9	43	+ 6
3 ENGLAND, EAST ...	75	38	*	*	*	*	200	+ 7	0	0	5	− 1	0·45	− 0·61	7·2	+0·5	44	+ 3
4. MIDLAND COUNTIES ...	75	36	*	*	*	*	181	− 13	0	0	6	+ 1	0·67	− 0·27	6·5	+0·4	39	+ 2
5. ENGLAND, S.E.	75	38	*	*	*	*	192	− 16	0	0	4	− 2	0·26	− 0·71	6·3	−0·5	39	− 3
Western.																		
6. SCOTLAND, WEST ...	72	40	*	*	*	*	145	− 30	0	0	10	+ 4	1·98	+ 0·76	6·3	−0·3	37	− 2
7. ENGLAND, N.W.	74	36	*	*	*	*	166	− 19	0	0	8	+ 2	1·73	+ 0·82	6·4	−0·4	39	− 2
8. ENGLAND, S.W.	72	34	*	*	*	*	169	− 30	0	0	8	+ 2	1·21	+ 0·17	5·6	−1·3	35	− 8
9. IRELAND, NORTH ...	68	35	*	*	*	*	138	− 35	0	0	10	+ 3	1·57	+ 0·41	3·9	−2·0	23	−12
10. IRELAND, SOUTH ...	69	38	*	*	*	*	154	− 41	0	0	10	+ 4	1·77	+ 0·66	5·0	−1·5	31	− 9
11. ENGLISH CHANNEL ...	71	44	*	*	*	*	183	− 26	0	0	7	0	0·51	− 0·34	6·1	−1·9	38	−12

THE YEAR.—Aggregates, &c., for the Period of 24 Weeks, December 29th, 1912, to June 14th, 1913.

0. SCOTLAND, NORTH ...	73	21	*	*	*	*	529	− 59	424	−133	117	+ 6	24·57	+2·55	2·8	−0·6	23	− 5
Eastern.																		
1. SCOTLAND, EAST ...	78	11	*	*	*	*	587	− 99	601	− 19	99	+ 9	14·28	+2·07	3·5	−0·4	28	− 4
2. ENGLAND, N.E.	80	18	*	*	*	*	757	+ 38	406	− 69	93	+11	11·88	+2·55	3·4	−0·7	28	− 6
3. ENGLAND, EAST ...	81	20	*	*	*	*	980	+ 96	303	−218	86	+ 5	9·81	+0·43	3·9	−0·4	32	− 4
4. MIDLAND COUNTIES ...	81	13	*	*	*	*	891	− 22	392	−141	93	+14	14·46	+3·81	3·3	−0·6	27	− 5
5. ENGLAND, S.E.	81	22	*	*	*	*	999	+ 24	221	−160	86	+ 9	12·54	+1·96	4·0	−0·3	33	− 3
Western.																		
6. SCOTLAND, WEST ...	73	17	*	*	*	*	712	− 55	323	−102	110	+15	22·93	+3·89	3·1	−0·9	26	− 7
7. ENGLAND, N.W.	76	10	*	*	*	*	788	− 21	298	− 88	104	+17	18·02	+4·82	3·4	−0·6	28	− 5
8. ENGLAND, S.W.	81	19	*	*	*	*	920	− 44	221	− 80	108	+22	21·69	+6·57	3·6	−0·8	30	− 7
9. IRELAND, NORTH ...	69	21	*	*	*	*	770	− 63	297	− 48	120	+18	19·74	+4·62	3·2	−0·6	27	− 5
10. IRELAND, SOUTH ...	73	22	*	*	*	*	927	− 87	243	− 16	122	+30	24·18	+7·55	3·5	−0·7	29	− 6
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	1,141	+ 13	38	− 71	102	+ 8	15·34	+2·57	4·1	−1·0	33	−10

M.O., June 18, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 25. TWENTY-FIFTH WEEK, SUNDAY, JUNE 15TH, TO SATURDAY, JUNE 21ST, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was fine very generally during the early days of the week, but subsequently it became unsettled, although in most places there was little rain. Thunderstorms occurred over a large area in Scotland on the 18th and 19th, and in various parts of the Kingdom—mostly over the eastern half—between the 17th and 20th.

Temperature, owing to some hot days early in the week, was above the average, except in Ireland South and in the English Channel, more than 2½° in England East, and 2° or more in many other parts of Britain. The highest of the maxima were nearly all recorded on the 16th or 17th, and ranged from 84° in England East and South-East, and 83° in the Midland Counties and England South-West to 76° in Scotland North and East, and to 75° in Ireland North. Late in the week there were few maxima as high as 70°. The lowest of the minima, which occurred either on the 15th or towards the end of the week, varied from 39° in Scotland East, and 40° in England East to 46° in Ireland North and to 49° in the English Channel. The lowest grass minima were 31° at Rauceby and 32° at Greenwich and Wisley. Over the Kingdom generally the temperature of the earth at a depth of 1 foot was above the normal, and at many stations it was also above it at a depth of 4 feet.

Mean Temperature of the Sea. On most parts of the coast the water was colder than during the corresponding week of last year, but as a rule the difference was not large, and, generally speaking, the mean for the week diverged little from the normal. The figure ranged from 61° at Seafield, and about 60° at Eastbourne and the Shipwash Lightship, and 57° at Scilly and Salcombe to 49° at Wick, and to 48° at Burnmouth.

Rainfall was considerably above the normal in Ireland, and slightly above it in Scotland East, but elsewhere it was below. In England South-West the total fall was only 0·1 in. and in England North-East and the Midland Counties only about 0·15 in. At Cambridge on the 17th, during a thunderstorm, as much as 1·2 in. fell, and at Armagh on the 18th there was 1·9 in. At Lerwick and in a few English localities the week was rainless.

Bright Sunshine exceeded the normal in Scotland North, and in all the central, eastern and south-eastern counties of England, but was less in the other districts. The percentage of the possible duration ranged from 55 in England East, and 51 in England South-East to 31 in Ireland North, 30 in Scotland East, and to 25 in Scotland West. In England East the daily mean, 9·1 hours, was more than twice that in Scotland West.

Barometer and Wind. Generally the distribution of pressure was irregular and the gradient slight. At first the barometer was high over Denmark, and relatively low over the Bay of Biscay, but later in the week the lowest readings were transferred to the western, and finally to the Northern districts of the United Kingdom, and the main direction of the wind, after being from some Easterly point, became Westerly or North-Westerly. At the end of the period another depression was beginning to affect the wind and barometer along the most western coasts of the Kingdom.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 99.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Light	Light	Light	Moderate	Light	Moderate	Moderate	Light	Light	Heavy	Heavy	Moderate
	Sunshine ...	Abundant	Moderate	Abundant	Abundant	Moderate	Abundant	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 3 weeks from June 1st, 1913.	Warmth ...	1 * 1	0 * 1	2 * 1	2 * 0	1 * 1	1 * 1	1 * 1	1 * 1	0 * 2	0 * 2	0 * 2	0 * 1
	Rainfall ...	2 * 1	1 * 1	0 * 2	0 * 1	0 * 1	0 * 2	2 * 0	2 * 1	1 * 1	1 * 0	2 * 0	0 * 0
	Sunshine ...	1 * 1	2 * 0	2 * 0	1 * 0	1 * 0	1 * 1	0 * 1	1 * 1	0 * 1	0 * 2	0 * 1	0 * 2

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(30602—24.) Wt. 196—786. 450. 6/13. D & S. Gp. 30. Sch 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°..	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands .. *p Baltasound* .. S	*61*	*15, 20*	*46*	*18, 19*	*57·4*	*47·9*	*52·3*	—	*72*	*0*	•	•	53·9	•	•	•	*1*	*0·01*	—	*5·4*	—	*29*	—	*Baltasound.*
a Lerwick	62	20th	46	17th	55·4	47·4	51·1	+ 1·5	64	0	•	•	•	•	•	•	0	0·00	—	8·2	+ 3·2	45	+18	Deerness.
a Stornoway	66	15, 18	46	21st	63·3	50·0	56·2	+ 3·8	99	0	•	•	•	•	•	•	2	0·23	- 0·34	6·7	+ 0·6	37	+ 3	Stornoway.
a Castlebay, Barra Isd.‡..	*66*	*17th*	*48*	*15, 21*	*58·6*	*49·7*	*53·8*	+ *1·0*	*83*	*0*							*3*	*0·37*	—	*4·8*	—	*27*	—	*Castlebay.*
b, Mainland. *a* Wick	64	16th	46	17, 18, 20	56·1	47·7	51·6	- 0·6	67	0	•	•	•	•	•	•	3	0·04	- 0·41	•	•	•	•	
p Strathpeffer ..	76	15th	47	18th	68·6	51·0	59·2	+ 5·0	120	0	•	•	•	•	•	•	2	0·40	+ 0·45	5·5	+ 0·2	31	+ 1	Strathpeffer.
p Glencarron ..	72	16th	46	20th	66·3	50 4	57·8	+ 4·8	111	0	•	•	•	•	•	•	4	0·69	- 0·29	•	•	•	•	
p Fort Augustus..	74	15, 16	45	15th	64·0	49·3	56·1	+ 1·8	99	0	•	•	•	•	•	•	3	0·18	- 0·29	4·8	+ 0·4	27	+ 2	Fort Augustus.
p Fort William ..	75	16th	47	15th	69·4	51·6	59·9	+ 4·6	125	0	•	•	•	•	•	•	2	0·18	- 0·69	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	75	15th	46	18, 19, 20	69·0	48·0	57·8	+ 3·1	111	0	0	37	56·6	+1·5	51·2	-0·8	—	—	—	5·5	—	31	—	Crathes S.
a Nairn	72	16th	44	18th	63·3	47·4	54·8	+ 0·3	90	0	•	•	•	•	•	•	2	0·55	+ 0·06	*7·8*	—	*44*	—	*Gordon Castle.*
a Aberdeen ..	69	15th	46	17th	62·7	48·6	55·2	+ 1·4	92	0	•	•	•	•	•	•	3	1·08	+ 0·69	5·3	—	30	—	Nairn.
a Balmoral ..	76	16th	39	15th	68·4	45·7	56·3	+ 4·0	100	0	0	36	•	•	•	•	1	0·08	- 0·35	5·6	- 0·5	32	- 3	Aberdeen.
p Crieff	76	16th	46	15th	68·1	50·1	58·5	+ 2·5	116	0	•	•	•	•	•	•	2	0·69	+ 0·22	•	•	•	•	Balmoral.
a Leith	67	16th	47	15th	61·7	56·0	55·4	- 0·5	94	0	•	•	•	•	•	•	3	0·26	- 0·39	4·6	—	26	—	Balruddery.
p West Linton ..	72	16th	41	15th	65·7	47·6	56·0	+ 2·9	98	0	0	38	•	•	•	•	3	0·14	- 0·30	•	•	•	•	
p Marchmont ..	72	16th	45	15th	66·7	48·6	57·0	+ 3·4	105	0	0	42	57·1	+1·3	•	•	4	0·42	—	*2·8*	—	*16*	—	*West Linton.*
																	4	1·55	+ 1·02	5·5	- 0·7	32	- 4	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	69	17, 18	42	16th	68·7	48·1	56·8	+ 2·3	104	0	0	37	57·6	+1·9	51·9	-0·8	2	0·31	- 0·17	6·8	—	40	—	Cockle Park.
a Shields	67	18th	47	16th	63·0	49·4	55·7	+ 1·0	96	0	•	•	•	•	•	•	3	0·08	- 0·40	•	•	•	•	
p Durham	73	18th	46	16, 20	67·6	49·1	57·7	+ 2·0	110	0	0	42	•	•	•	•	1	0·05	- 0·38	6·5	+ 0·7	38	+ 4	Durham.
a, North .. *p* Rounton	78	16th	44	16th	69·0	48·9	58·3	+ 3·3	114	0	0	38	59·5	•	•	•	2	0·16	- 0·30	•	•	•	•	Rounton.
a West Witton	*74*	*16th*	*44*	*16, 20*	*67·1*	*48·4*	*57·1*	—	*106*	*0*	0	40	58·7	•	50·6	•	*3*	*0·13*	—	•	•	•	•	*West Witton.*
p Scarborough	67	18th	48	16th	62·8	50·1	56·0	+ 0·3	98	0	•	•	•	•	53·9†	•	1	0·01	- 0·41	9·7	—	57	—	Scarborough.
p York	79	17th	48	16th	71·6	51·3	60·7	+ 3·1	131	0	•	•	57·8	+1·1	53·3	+0·2	3	0·41	- 0·09	7·4	+ 1·5	44	+ 9	York.
											0	40	59·1	+1·8	52·6	+0·5	—	—	—	*5·8*	—	*34*	—	*Hull.*
b, South .. *a* Spurn Head	68	17th	48	16, 20	63·0	50·4	56·3	+ 0·4	100	0	•	•	•	•	•	•	2	0·08	- 0·28	*10·2*	—	*60*	—	*Spurn Head.*
a Lincoln	81	17th	46	15, 21	73·0	50·0	60·7	+ 2·2	131	0	•	•	61·9	+4·1	54·3	+0·6	2	0·05	- 0·41	•	•	•	•	Lincoln.
a Fulbeck	82	17th	43	15, 16	74·0	47·3	59·7	+ 1·7	124	0	0	31	62·7	+1·6	54·4	-1·0	2	0·13	- 0·31	8·6	—	52	—	Rauceby.
											•	•	•	•	•	•	—	—	—	11·0	—	66	—	Skegness.
3. ENGLAND, E.											0	46	62·9	+2·8	56·6	+0·8	—	—	—	*9·5*	—	*57*	—	*Lowestoft.*
p Cromer	77	17th	46	15th	68·9	52·6	60·2	+ 3·9	127	0	•	•	•	•	•	•	0	0·00	—	9·7	—	58	—	Cromer.
p Little Massingham ..	84	16th	42	16th	73·0	49·3	60·3	+ 2·6	128	0	0	40	•	•	•	•	3	0·15	- 0·38	8·4	+ 1·8	51	+11	Lit. Massingham.
a, North .. *a* Yarmouth	75	18th	52	15th	65·6	54·3	59·6	+ 2·8	123	0	•	•	63·7	+1·4	57·0	-1·2	0	0·00	- 0·42	9·0	—	54	—	Yarmouth.
a Norwich	83	17th	43	15th	73·3	51·1	61·4	+ 4·4	136	0	0	38	61·7	•	•	•	2	0·14	—	*8·9*	—	*54*	—	*Norwich.*
p Geldeston	78	17, 18	40	15th	70·9	49·3	59·4	+ 2·2	122	0	0	40	•	•	•	•	0	0·00	- 0·43	8·4	+ 1·5	51	+ 9	Geldeston.
p Cambridge	84	17th	43	21st	73·7	49·4	60·7	+ 1·8	131	0	0	40	62·6	+2·7	56·7	+0·5	1	1·18	+ 0·70	9·1	+ 2·5	55	+15	Cambridge.
a Felixstowe	*71*	*18th*	*49*	*20th*	*66·1*	*54·1*	*59·7*	+ *1·8*	*124*	*0*	•	•	•	•	•	•	*2*	*1·32*	—	*10·4*	—	*63*	—	*Felixstowe.*
a Clacton-on-Sea ..	73	17th	50	20th	67·7	54·9	60·9	+ 3·2	132	0	0	42	61·4	+2·5	57·0	+0·5	1	0·11	—	10·5	—	64	—	Clacton.
b, South .. *a* Rothamsted	80	16th	42	21st	71·3	48·6	59·2	+ 1·7	120	0	•	•	•	•	•	•	2	0·34	- 0·16	8·5	+ 2·1	52	+13	Rothamsted.
a Shoeburyness	*80*	*17th*	*48*	*15th*	*70·0*	*51·3*	*60·0*	+ *0·1*	*126*	*0*	0	41	64·6	+3·3	•	•	*1*	*0·02*	- *0·38*	*9·7*	—	*59*	—	*Southend.*
p Tottenham	83	17th	46	21st	73·1	52·4	62·0	+ 3·7	140	0	0	45	•	•	57·8	+0·7	1	0·16	—	9·1	—	56	—	Tottenham.
4. MIDLAND COUNTIES.											0	43	59·1	+1·4	51·5	-0·5	—	—	—	*5·0*	—	*30*	—	*Huddersfield.*
a Harrogate	75	16th	44	16th	68·3	48·7	57·8	+ 2·1	111	0	0	40	56·4	+2·0	53·1	+0·5	2	0·28	- 0·26	7·2	—	43	—	Harrogate.
a Bawtry	80	16th	42	21st	73·0	48·7	60·0	+ 2·1	126	0	0	36	59·1	•	54·4	•	2	0·16	- 0·27	7·3	+ 1·8	44	+11	Worksop.
p Buxton	*74*	*16th*	*41*	*15, 16*	*68·3*	*46·7*	*56·8*	+ *3·4*	*104*	*0*	0	37	57·6	+1·6	50·4	-0·5	*4*	*0·32*	- *0·41*	*6·9*	—	*41*	—	*Buxton.*
a, East .. *a* Nottingham	82	16th	42	21st	72·7	48·6	59·8	+ 2·0	125	0	0	36	61·9	+3·7	55·4	+0·8	2	0·16	- 0·30	7·5	—	45	—	Nottingham.
p Birmingham, Edgbsn.	78	16th	48	20th	69·9	52·4	60·5	+ 3·5	130	0	0	38	55·6	+2·3	50·1	0·0	2	0·06	- 0·44	6·6	—	40	—	Birmingham.
a Raunds	83	16th	41	21st	74·2	49·0	60·7	+ 2·6	131	0	0	36	61·0	•	54·0	•	2	0·23	—	•	•	•	•	Raunds.
p Oxford	83	16th	48	16th	72·1	51·6	61·1	+ 2·4	134	0	0	41	•	•	•	•	3	0·18	- 0·33	7·6	+ 1·0	46	+ 7	Oxford.
											0	38	58·0	+1·8	51·9	+0·4	—	—	—	6·6	—	40	—	Sheffield.
a Cheadle	76	16th	45	15th	69·1	50·0	58·9	+ 3·0	118	0	0	41	•	•	•	•	1	0·24	- 0·36	•	•	•	•	Cheadle.
p Shrewsbury	78	16th	44	15th	71·3	49·9	59·9	+ 2·2	125	0	0	38	•	•	•	•	0	0·00	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	78	16th	46	16th	70·1	50·4	59·6	+ 1·2	123	0	0	39	•	•	•	•	1	0·28	- 0·22	•	•	•	•	Hereford.
a Cirencester	80	16th	47	19th	72·1	49·9	60·2	+ 3·3	127	0	0	46	59·0	•	54·2	•	3	0·11	- 0·43	5·9	- 0·6	36	- 4	Cirencester.
a Bath	82	16th	48	16th	70·7	51·3	60·3	+ 1·9	128	0	•	•	60·5	+0·2	55·9	-1·0	2	0·03	- 0·51	6·4	—	39	—	Bath.
5. ENGLAND, S.E.											0	38	65·0	+4·9	57·2	+0·3	—	—	—	•	•	•	•	Canterbury.
p Kew	83	16th	47	21st	72·7	53·1	62·2	+ 3·5	141	0	0	39	61·3	+2·1	55·2	+0·1	2	0·18	- 0·32	8·6	+ 2·1	52	+13	Kew.
a Marlborough	81	16th	41	16th	70·3	49·0	58·9	+ 2·0	118	0	0	36	•	•	53·5	•	2	0·23	- 0·34	6·8	+ 0·8	42	+ 5	Marlborough.
a Margate	83	17th	51	20th	70·9	54·6	62·2	+ 3·9	141	0	0	45	59·7	+0·9	54·3	-1·5	0	0·00	- 0·42	9·1	+ 2·9	56	+18	Margate.
a Wisley, Surrey ..	84	16th	45	16th	74·0	49·9	61·1	+ 1·4	134	0	0	32	62·1	+2·4	56·2	-0·1	1	0·34	—	8·5	—	52	—	Wisley
											0	45	62·2	+0·8	56·5	-0·2	—	—	—	8·8	—	54	—	Worthing.
p Salisbury (Wilton) ..	83	16th	45	16th	69·3	49·6	58·8	- 0·6	118	0	0	42	62·6	•	•	•	1	0·07	- 0·43	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—					Tunbridge Wells.
a Dungeness	71	16th	49	20th	66·9	53·1	59·5	+ 1·8	123	0	•	•	•	•	•	•	1	0·02	- 0·32	9·4	—	58	—	Littlestone.
p Hastings..	79	16th	49	20th	68·4	53·3	60·3	+ 2·2	128	0	0	45	63·5	•	57·1	•	1	0·77	+ 0·33	*9·7*	+ *2·1*	*60*	+*13*	*Hastings.*
p Southampton	73	15th	49	20th	68·1	52·6	59·8	- 0·5	125	0	0	46	•	•	•	•	3	0·35	- 0·12	7·2	+ 0·2	44	+ 1	Southampton
a Ventnor	75	16th	51	20th	66·4	53·4	59·5	+ 0·4	123	0	0	46	•	•	•	•	1	0·16	- 0·29	7·5	+ 1·0	46	+ 6	Ventnor.
											•	•	62·6	+1·1	57·9	0·0	—	—	—	*8·2*	—	*50*	—	*Portsmouth.*
											•	•	60·5	•	56·8	•	—	—	—	9·4	+ 2·0	58	+12	Eastbourne.
											•	•	59·6	•	57·3	•	—	—	—	*5·9*	—	*36*	—	*Bournemouth.*
LONDON.											0	47	•	•	57·4	•	—	—	—	*9·7*	+ *2·3*	*60*	+*14*	*Brighton.*
a Westminster	*82*	*17th*	*50*	*21st*	*73·0*	*54·1*	*62·9*	+ *3·5*	*146*	*0*	0	45	•	•	•	•	*2*	*0·14*	- *0·36*	*8·8*	+ *3·2*	*54*	+*19*	*Westminster*
a Greenwich	*87*	*17th*	*44*	*21st*	*75·9*	*50·1*	*62·1*	+ *2·1*	*141*	*0*	0	32	•	•	•	•	*2*	*0·41*	- *0·06*	*9·6*	+ *2·9*	*59*	+*18*	*Greenwich.*
a Hampstead	*82*	*17th*	*49*	*21st*	*72·0*	*52·1*	*61·4*	—	*136*	*0*	0	40	•	•	•	•	*1*	*0·03*	—	*9·6*	—	*59*	—	*Hampstead.*
a Camden Square ..	*85*	*16, 17*	*47*	*21st*	*77·0*	*52·6*	*64·0*	—	*154*	*0*	0	46	•	•	•	•	*1*	*0·13*	—	*8·8*	—	*54*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	73	16th	47	20th	67·1	52·6	59·4	+ 3·4	122	0	•	•	•	•	•	•	4	0·23	- 0·47	•	•	•	•	
p Glasgow	72	16th	49	15th	65·1	52·6	58·4	+ 2·7	115	0	0	39	•	•	•	•	4	0·80	+ 0·20	2·3	- 3·1	13	-18	Glasgow.
p Rothesay .. S	76	16th	44	16th	69·1	50·1	58·9	+ 2·7	118	0	•	•	•	•	51·7	-1·2	4	0·38	- 0·34	•	•	•	•	
a Kilmarnock	76	16th	44	15th	67·6	51·0	58·7	+ 3·0	117	0	•	•	•	•	•	•	2	0·37	—	*4·5*	—	*26*	—	*Kilmarnock.*
a Colmonell ..	72	16, 17	45	15th	65·1	50·4	57·2	+ 1·4	106	0	0	43	•	•	•	•	3	0·59	+ 0·01	•	•	•	•	
p Dumfries	77	16th	45	15th	67·1	51·6	58·8	+ 1·9	118	0	0	41	58·7	•	54·2	•	4	0·05	- 0·49	*5·7*	—	*34*	—	*Dumfries.*
p Cally, Gatehouse	75	16th	42	15th	67·7	50·0	58·2	+ 2·1	113	0	•	•	•	•	•	•	2	0·43	- 0·25	•	•	•	•	
b I. OF MAN																								
p Douglas	71	16th	49	15, 19, 20	62·3	51·1	56·3	+ 0·7	100	0	0	46	•	•	•	•	3	0·64	+ 0·03	6·3	- 1·0	37	- 6	Douglas.
											0	40	56·9	+0·9	51·2	-0·6	—	—	—	*3·9*	—	*23*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											0	46	•	•	•	•	—	—	—	7·0	—	42	—	Hoylake.
p Aspatria	75	16th	45	20th	66·4	50·0	57·6	+ 2·1	109	0	0	38	57·7	•	51·2	•	4	0·12	- 0·46	5·3	—	31	—	Aspatria.
p Newton Rigg	75	17th	44	15th	67·4	49·0	57·6	+ 2·9	109	0	0	37	57·6	+0·3	51·4	-1·2	3	0·18	- 0·31	5·4	- 1·5	32	- 9	Newton Rigg.
p Stonyhurst	75	16th	49	19th	66·1	52·0	58·6	+ 2·2	116	0	0	41	•	•	•	•	3	0·30	- 0·40	3·1	- 3·4	18	- 20	Stonyhurst.
p Blackpool	75	17th	47	21st	67·0	51·1	58·5	+ 1·5	116	0	0	38	57·8	•	52·0	•	5	0·25	- 0·25	6·2	- 0·4	37	- 2	Blackpool.
p Manchester (Whit. Pk.)	78	16th	51	20th	70·4	53·4	61·3	+ 3·5	135	0	•	•	•	•	•	•	2	0·13	- 0·39	*5·1*	- *0·2*	*31*	- *2*	*Whit. Park.*
a Liverpool (Bidston) ..	77	16th	50	20, 21	66·7	52·9	59·3	+ 2·1	121	0	•	•	•	•	•	•	3	0·31	- 0·22	*7·3*	—	*44*	—	*Liverpool.*
a Hawarden Bridge ..	77	16th	46	15th	69·4	52·0	60·1	+ 2·2	127	0	0	42	61·9	+1·1	57·1	-0·3	3	0·08	- 0·36	*6·6*	- *0·2*	*39*	- *1*	*Southport.*
											0	46	60·1	+2·5	55·2	+0·5	—	—	—	*4·8*	—	*29*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	74	15th	50	19, 20	66·7	52·3	59·0	+ 1·4	119	0	•	•	•	•	•	•	2	0·66	+ 0·21	6·7	0·0	40	0	Llandudno.
a Holyhead	72	16th	50	19, 20	63·0	51·7	57·0	+ 0·7	105	0	•	•	•	•	•	•	2	0·31	- 0·19	*7·4*	—	*45*	—	*Holyhead.*
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	5·4	—	33	—	Aberdovey.

For notes see also opposite page.

† At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway used for this, and future reports.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				5·8	—	35	—	Aberystwyth.
a Llangammarch Wells	78	16th	44	16th	67·0	49·3	57·5	+ 1·1	109	0	0	37	57·8	+2·3	52·0	+0·2	2	0·21	—	6·4	—	39	—	Llangammarch
a Pembroke	71	16th	49	21st	61·6	52·1	56·5	+ 0·4	102	0	•	•	•	•	•	•	3	0·09	+ 0·37	5·0	- 2·5	31	-15	Pembroke.[Wells
p Cardiff	78	16th	50	15, 19, 20	68·1	51·4	59·2	+ 0·3	129	0	0	43	61·2	+1·3	55·3	-0·5	1	0·15	+ 0·46	*7·4*	—	*45*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	83	16th	52	19, 20	70·7	54·6	62·1	+ 3·2	141	0	0	49	•	•	•	•	2	0·04	- 0·51	*7·4*	—	*45*	—	*Clifton.*
a Shaftesbury	78	16th	47	19, 20	66·4	51·3	58·3	+ 1·4	114	0	•	•	58·7	•	54·9	•	3	0·16	- 0·39	•	•	•	•	Shaftesbury.
a Arlington	76	16th	46	15, 21	64·4	49·1	56·2	+ 0·6	99	0	•	•	•	•	•	•	2	0·07	- 0·66	•	•	•	•	Arlington.
a Newquay	*71*	*16th*	*48*	*21st*	*63·3*	*51·4*	*56·9*	- *0·5*	*104*	*0*	•	•	59·0	•	•	•	2	*0·19*	- *0·23*	5·9	- 1·4	36	- 9	Newquay.
a Cullompton	81	16th	43	15, 21	70·0	47·7	58·1	0·0	113	0	0	39	61·6	•	•	•	3	0·07	- 0·43	6·3	- 0·2	39	- 1	Cullompton.
a Portland	64	16th	53	15, 17, 21	59·3	53·9	56·4	- 0·8	101	0	•	•	•	•	•	•	2	0·03	—	—	—	—	—	*Weymouth.*
p Plymouth	74	16th	48	21st	64·4	52·5	58·0	- 0·9	112	0	0	40	60·0	-0·3	•	•	2	0·06	- 0·44	4·7	- 2·3	29	-14	Plymouth.
p Falmouth	65	15, 16	48	21st	62·6	52·3	57·1	- 0·7	106	0	•	•	•	•	•	•	4	0·12	- 0·44	6·3	- 1·2	39	- 7	Falmouth.
9. IRELAND. N.																								
a Malin Head	70	17th	48	20th	61·1	50·9	55·6	+ 1·4	95	0	•	•	•	•	•	•	4	1·11	+ 0·60	•	•	•	•	• •
a Blacksod Point ..	71	17th	47	20th	61·3	51·9	56·3	+ 0·5	100	0	•	•	•	•	•	•	4	0·73	+ 0·12	•	•	•	•	• •
a, West .. *p* Markree Castle ..	75	17th	47	17, 19, 21	64·1	49·4	56·2	+ 1·1	99	0	0	42	58·2	•	52·2	•	3	0·79	+ 0·12	4·6	- 0·9	27	- 6	Markree Castle.
a Birr Castle	75	16th	46	15, 20	64·7	49·1	56·4	- 0·3	101	0	•	•	•	•	•	•	3	0·84	+ 0·29	*4·2*	- *1·4*	*25*	- *8*	*Birr Castle.*
p Armagh	73	16th	47	15th	66·7	49·9	57·7	+ 1·7	110	0	0	40	58·4	+0·5	53·2	-1·0	3	2·45	+ 1·87	5·7	0·0	34	0	Armagh.
b, East .. *a* Donaghadee ..	64	15, 16	48	15th	60·9	50·6	55·4	- 0·3	94	0	•	•	•	•	•	•	3	0·86	+ 0·33	•	•	•	•	• •
											0	44	59·1	-0·9	54·3	-0·6	—	—	—	•	•	•	•	Trinity Coll.
											0	35	•	•	•	•	—	—	—	5·7	- 0·8	34	- 5	Phœnix Park.
10. IRELAND, S.																								
p Dublin, City	75	17th	50	19, 20	66·1	53·0	59·1	+ 0·7	120	0	0	46	•	•	•	•	3	0·40	- 0·04	•	•	•	•	Dublin City.
a, East .. *a* Kilkenny ..	74	16th	45	19th	63·6	48·6	55·6	- 1·7	95	0	•	•	•	•	•	•	4	0·37	- 0·19	•	•	•	•	• •
a Waterford	76	16th	47	15, 19	63·0	50·1	56·1	- 1·6	99	0	•	•	•	•	•	•	3	0·59	- 0·06	•	•	•	•	• •
a Birr Castle	75	16th	46	15, 20	64·7	49·1	56·4	- 0·3	101	0	•	•	•	•	•	•	3	0·84	+ 0·29	*4·2*	- *1·4*	*25*	- *8*	Birr Castle.
a Foynes	72	17th	45	15th	65·2	48·9	56·5	- 1·0	102	0	•	•	•	•	•	•	3	1·26	+ 0·70	•	•	•	•	• •
b, West .. *a* Cahir	75	16th	44	15th	65·4	47·7	55·9	- 1·1	97	0	•	•	•	•	•	•	4	1·06	—	•	•	•	•	• •
a Killarney	78	16th	47	20, 21	67·9	49·9	58·3	+ 1·4	114	0	•	•	•	•	•	•	4	0·74	+ 0·07	•	•	•	•	• •
a Valencia	67	16th	48	16th	61·9	52·1	56·7	- 0·4	103	0	•	•	•	•	•	•	5	0·72	- 0·03	6·6	+ 0·3	40	+ 2	Valencia.
a Roche's Point	71	16th	46	19th	62·6	50·4	56·1	- 1·1	99	0	•	•	•	•	•	•	6	1·27	+ 0·63	5·7	—	35	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	66	16, 17	51	15, 18, 21	62·4	51·3	56·5	- 1·5	102	0	•	•	•	•	•	•	4	0·63	+ 0·22	6·7	- 1·4	42	- 9	Scilly.
a Jersey, St. Aubins ..	76	15th	50	21st	65·6	54·3	59·6	+ 0·3	123	0	•	•	•	•	•	•	2	0·15	- 0·33	7·1	- 1·0	44	- 6	St. Heliers.
a Guernsey (Villa Carey	79	16th	49	21st	64·9	52·3	58·2	- 0·3	113	0	0	41	61·4	+0·4	56·9	-0·7	3	0·07	- 0·42	6·7	- 1·5	42	- 9	Guernsey.*

Additional Sunshine Means:—*Bognor, 8·6 hrs. 53 °/₀; Ramsgate, 10·0 hrs. 61 °/₀; Rhyl, 8·2 hrs. 49 °/₀; Salcombe, 5·9 hrs. 36 °/₀; Tenby, 6·2 hrs. (-1·4) 38 °/₀ (-9); Torquay, 6·1 hrs. (-1·6) 37 °/₀ (-10).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, June 21st.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	51	49	49·7	+0·2	SCOTLAND, W. ..	Lamlash	60	52	55·3	+2·5
	Kirkwall	55	52	53·8	+1·6		Ballantrae	53	51	52·1	-0·6
	Wick	50	48	49·2	-1·9	ENGLAND, N.W. ..	Port Erin	55	52	52·7	+0·4
SCOTLAND, E. ..	Cromarty	54	51	52·7	-0·6	ENGLAND, S.W. ..	Newquay	57	55	55·8	-1·7
	Pennan Bay	59	52	56·5	+4·5		Scilly	59	56	57·3	—
	Aberdeen, Cove Bay	51	50	50·1	-0·8		Plymouth‡	57	56	56·3	-0·2
ENGLAND, N.E. ..	Burnmouth, Berwick	50	47	48·2	-1·9		Salcombe	58	56	56·6	+1·6
	Scarborough	57	53	54·9	+2·8	IRELAND, N.W. ..	Sheephaven	57	53	55·1	-1·0
ENGLAND, E. ..	Shipwash Lightship	61	56	59·6	+3·1		Teelin	57	54	56·0	-1·7
ENGLAND, S.E. ..	Eastbourne‡	61	60	60·4	+1·5	IRELAND, S.W. ..	Cleggan	57	53	55·1	+0·2
						IRELAND, E.	Seafield	63	57	61·2	+4·1
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-FIFTH WEEK—June 15th to June 21st, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Diff-erence from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Differ-ence from Av. (‡25 Yrs.)	Above 42°	Differ-ence from Av. (‡25 Yrs.)	Below 42°	Differ-ence from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	°/₀	°/₀
0. SCOTLAND, NORTH ...	76	45	63·3	49·6	56·0	+ 2·6	98	+ 18	0	0	2	− 2	0·32	−0·37	6·3	+1·4	35	+ 8
Eastern.																		
1. SCOTLAND, EAST ...	76	39	65·7	48·3	56·4	+ 1·6	101	+ 11	0	0	3	0	0·60	+0·06	5·3	−0·7	30	− 4
2. ENGLAND, N.E.	82	42	67·9	49·4	58·0	+ 2·0	112	+ 14	0	0	2	− 2	0·14	−0·28	8·3	+2·1	49	+12
3. ENGLAND, EAST ...	84	40	70·9	51·3	60·5	+ 2·7	130	+ 20	0	0	1	− 2	0·23	−0·20	9·1	+2·3	55	+14
4. MIDLAND COUNTIES ...	83	41	71·2	50·0	59·9	+ 2·3	125	+ 16	0	0	2	− 1	0·16	−0·32	6·9	+0·8	42	+ 5
5. ENGLAND, S.E.	84	41	69·7	52·1	60·3	+ 1·8	128	+ 12	0	0	1	− 1	0·24	−0·16	8·4	+1·4	51	+ 9
Western.																		
6. SCOTLAND, WEST ...	77	42	66·4	51·2	58·2	+ 2·2	113	+ 15	0	0	3	− 1	0·44	−0·28	4·3	−1·9	25	−11
7. ENGLAND, N.W.	78	44	67·0	51·6	58·8	+ 1·8	118	+ 13	0	0	3	0	0·26	−0·32	5·6	−0·7	33	− 4
8. ENGLAND, S.W.	83	43	65·5	51·4	57·9	+ 0·3	111	+ 2	0	0	2	− 2	0·10	−0·44	5·8	−1·0	35	− 6
9. IRELAND, NORTH ...	75	46	63·1	50·3	56·3	+ 0·3	100	+ 3	0	0	3	− 1	1·13	+0·47	5·2	−0·4	31	− 2
10. IRELAND, SOUTH ...	78	44	64·5	50·0	56·7	− 0·7	103	− 5	0	0	4	0	0·81	+0·18	5·6	−0·4	33	− 3
11. ENGLISH CHANNEL ...	79	49	64·3	52·6	58·1	− 0·4	113	− 2	0	0	3	0	0·28	−0·13	6·8	−1·3	42	− 8

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 3 Weeks, June 1st to June 21st, 1913.

0. SCOTLAND, NORTH ...	76	33	*	*	*	*	222	+ 2	0	− 2	13	+ 2	3·59	+ 1·72	5·3	−0·1	30	0
Eastern.																		
1. SCOTLAND, EAST ...	78	35	*	*	*	*	243	− 2	0	− 1	10	+ 1	1·65	+ 0·16	6·7	+0·7	38	+ 4
2. ENGLAND, N.E.	82	37	*	*	*	*	284	+ 19	0	0	9	0	0·73	− 0·54	7·5	+1·3	45	+ 8
3 ENGLAND, EAST ...	84	38	*	*	*	*	330	+ 27	0	0	6	− 3	0·68	− 0·81	7·8	+1·1	48	+ 7
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	306	+ 3	0	0	8	0	0·83	− 0·59	6·6	+0·5	40	+ 3
5. ENGLAND, S.E.	84	38	*	*	*	*	320	− 4	0	0	5	− 3	0·50	− 0·87	7·0	+0·1	43	+ 1
Western.																		
6. SCOTLAND, WEST ...	77	40	*	*	*	*	258	− 15	0	0	13	+ 3	2·42	+ 0·48	5·6	−0·9	33	− 5
7. ENGLAND, N.W.	78	36	*	*	*	*	284	− 6	0	0	11	+ 2	1·99	+ 0·50	6·1	−0·5	37	− 3
8. ENGLAND, S.W.	83	34	*	*	*	*	280	− 28	0	0	10	0	1·31	− 0·27	5·7	−1·2	35	− 7
9. IRELAND, NORTH ...	75	35	*	*	*	*	238	− 32	0	0	13	+ 2	2·70	+ 0·88	4·3	−1·5	26	− 9
10. IRELAND, SOUTH ...	78	38	*	*	*	*	257	− 46	0	0	14	+ 4	2·58	+ 0·84	5·2	−1·1	32	− 7
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	296	− 28	0	0	10	0	0·79	− 0·47	6·3	−1·7	40	−11

THE YEAR.—Aggregates, &c., for the Period of 25 Weeks, December 29th, 1912, to June 21st, 1913.

0. SCOTLAND, NORTH ...	76	21	*	*	*	*	627	− 41	424	−133	119	+ 4	25·28	+2·57	3·0	−0·5	24	− 4
Eastern.																		
1. SCOTLAND, EAST ...	78	11	*	*	*	*	688	− 88	601	− 19	102	+ 9	14·88	+2·13	3·5	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	869	+ 52	406	− 69	95	+ 9	12·02	+2·27	3·6	−0·6	29	− 4
3. ENGLAND, EAST ...	84	20	*	*	*	*	1,110	+116	303	−218	87	+ 3	10·04	+0·23	4·1	−0·3	33	− 3
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	1,016	− 6	392	−141	95	+13	14·62	+3·49	3·4	−0·6	28	− 4
5. ENGLAND, S.E.	84	22	*	*	*	*	1,127	+ 36	221	−160	87	+ 8	12·78	+1·80	4·2	−0·2	34	− 2
Western.																		
6. SCOTLAND, WEST ...	77	17	*	*	*	*	825	− 40	323	−102	113	+14	23·37	+3·61	3·2	−0·8	26	− 7
7. ENGLAND, N.W.	78	10	*	*	*	*	906	− 8	298	− 88	107	+17	18·28	+4·50	3·5	−0·6	28	− 5
8. ENGLAND, S.W.	83	19	*	*	*	*	1,031	− 42	221	− 80	110	+20	21·79	+6·13	3·7	−0·8	30	− 6
9. IRELAND, NORTH ...	75	21	*	*	*	*	870	− 60	297	− 48	123	+17	20·87	+5·09	3·3	−0·6	27	− 5
10. IRELAND, SOUTH ...	78	22	*	*	*	*	1,030	− 92	243	− 16	126	+30	24·99	+7·73	3·6	−0·7	29	− 6
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	1,254	+ 11	38	− 71	105	+ 8	15·62	+2·44	4·2	−1·1	34	−10

M.O., June 25, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1 and 6, the district averages for temperature are for 30 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 26. TWENTY-SIXTH WEEK, SUNDAY, JUNE 22ND, TO SATURDAY, JUNE 28TH, 1913. *Price 6d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. Over the Kingdom generally the weather was more or less cloudy, but rain was infrequent except in the north and east of Scotland. Thunderstorms, or thunder only, occurred in isolated parts of Scotland and central and eastern England about the middle of the week, and thunder was heard at Margate on Saturday.

Temperature, was below the normal, the difference amounting to about 3°·5 in Ireland. The highest of the maxima were recorded in most districts on the 28th, but at many stations in the north-east and north of England and in some parts of Scotland they occurred more commonly on the 22nd. The values ranged from 77° in the Midland counties and 76° in England East and South-East to 66° in Scotland North and Ireland North. The lowest of the minima, which were recorded on irregular dates, varied from 40° in Scotland East, England South-East and South-West, and Ireland North to 47° in Scotland West, England North-West and the English Channel. The lowest grass readings were 30° at Wisley, 31° at Dublin (Phœnix Park), 34° at Markree Castle, and 35° at Cullompton. In a few localities the temperature of the soil was below the average at a depth of both 1 foot and also at 4 feet, but generally it was a little above the normal.

Mean Temperature of the Sea. As a rule the water was colder than during the corresponding week of last year, but in most places its temperature was somewhat above the average. The mean for the week ranged from 61° at Seafield and 60°·6 at Eastbourne to 49°·5 at Burnmouth and Wick.

Rainfall was less than the average except in Ireland North. At several stations in the Southern and central counties of England the fall was less than 0·1 in. At Donaghadee on the 24th there was as much as 1·1 in.

Bright Sunshine exceeded the normal in the south-west of England and the English Channel, but was below it elsewhere, the deficit being considerable in most parts of the Kingdom. In the English Channel the mean daily duration was 9·7 hours, and in England South-West 7·8 hours, the percentage of the possible duration being respectively 61 and 48. In Scotland North the mean daily amount was 1·8 hours, only 10 per cent. of the possible.

Barometer and Wind. During the earlier half of the week a depression of considerable size and moderate intensity travelled eastwards over the United Kingdom, and the South-Westerly to Westerly winds over the South-Western coasts and the Channel blew a fresh to strong breeze at times. By Wednesday the centre had reached the south of Scandinavia, and during the remainder of the week a large high pressure system came slowly over these Islands from the south-westward, the maximum pressure on Saturday being situated off the south-west coasts. The wind current with the advancing anticyclone was mainly between North-West and West over this country, and its force light or moderate.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 103.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Very deficient
	Rainfall ...	Moderate	Moderate	Moderate	Moderate	Very light	Light	Moderate	Moderate	Light	Moderate	Moderate	Light
	Sunshine ...	Very scanty	Scanty	Very scanty	Very scanty	Scanty	Scanty	Very scanty	Very scanty	Moderate	Scanty	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 4 weeks from June 1st, 1913.	Warmth ...	1 * 1	0 * 1	2 * 1	2 * 1	1 * 2	1 * 2	1 * 2	1 * 2	0 * 3	0 * 3	0 * 3	0 * 2
	Rainfall ...	2 * 1	1 * 1	0 * 2	0 * 1	0 * 2	0 * 3	2 * 0	2 * 1	1 * 2	1 * 0	2 * 0	0 * 1
	Sunshine ...	1 * 2	2 * 1	2 * 1	1 * 1	1 * 1	1 * 2	0 * 2	1 * 2	0 * 1	0 * 3	0 * 1	1 * 2

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(30702—24.) Wt. 196—786. 450. 7/13. D & S. Gp. 30. Sch 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
0. SCOTLAND, N.	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
p Baltasound .. S	*59*	*22nd*	*40*	*28th*	*54·3*	*45·9*	*49·8*	—	*55*	*0*	•	•	54·8	•	•	•	*1*	*0·43*	—	*2·6*	—	*14*	—	*Baltasound.*
a Lerwick	57	24th	45	22nd	53·7	47·1	50·2	0·0	57	0	•	•	•	•	•	•	1	0·21	—	1·6	- 3·3	9	-18	Deerness.
a, Islands .. *a* Stornoway	59	22, 27	47	22nd	56·9	49·7	53·1	+ 0·1	78	0	•	•	•	•	•	•	5	0·61	+ 0·02	1·3	- 4·6	7	-26	Stornoway.
a Castlebay, Barra Isd.‡..	*57*	*22, 24, 25*	*48*	*22nd*	*55·9*	*50·1*	*52·8*	*- 0·6*	*76*	*0*	•	•	•	•	•	•	*6*	*0·74*	—	*0·9*	—	*5*	—	*Castlebay.*
a Wick	59	22, 28	46	27th	55·9	47·3	51·3	- 1·4	65	0	•	•	•	•	•	•	4	0·47	- 0·03	•	•	•	•	
p Strathpeffer ..	67	24th	48	27, 28	61·1	49·9	55·1	+ 0·4	92	0	•	•	•	•	•	•	5	0·76	+ 0·26	2·5	- 2·5	14	-14	Strathpeffer.
b, Main- *p* Glencarron ..	63	22nd	46	28th	57·6	48·4	52·7	- 0·7	75	0	•	•	•	•	•	•	7	1·09	+ 0·06	•	•	•	•	
land. *p* Fort Augustus..	65	28th	46	24th	60·6	49·0	54·4	- 0·3	87	0	•	•	•	•	•	•	3	0·80	+ 0·28	1·8	- 2·4	10	-14	Fort Augustus.
p Fort William ..	66	24, 28	47	27, 28	62·3	49·3	55·4	- 0·4	94	0	•	•	•	•	•	•	6	0·49	- 0·45	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	66	22, 23, 24	46	24, 26	61·9	48·0	54·5	- 1·0	88	0	0	41	56·9	+1·2	52·1	-0·3	—	—	—	3·3	—	19	—	Crathes S.
a Nairn	65	24, 28	41	24th	60·6	47·7	53·7	- 1·3	82	0	•	•	•	•	•	•	5	0·59	+ 0·05	*3·1*	—	*13*	—	*Gordon Castle.*
a Aberdeen ..	70	28th	48	22nd	62·1	50·1	55·7	+ 1·0	96	0	•	•	•	•	•	•	6	0·70	+ 0·26	2·3	—	13	—	Nairn.
a Balmoral	66	25th	40	24th	62·4	46·7	54·0	+ 0·8	84	0	0	38	•	•	•	•	5	0·46	- 0·04	•	•	•	•	
p Crieff	68	28th	47	27, 28	64·0	49·3	56·1	- 0·5	99	0	•	•	•	•	•	•	4	0·83	+ 0·17	3·5	—	20	—	Balruddery.
a Leith	66	28th	48	22, 28	63·9	50·3	56·6	- 0·1	102	0	•	•	•	•	•	•	4	0·44	- 0·05	•	•	•	•	
p West Linton .. S	64	25th	42	22nd	60·9	46·6	53·3	- 0·8	79	0	0	39	•	•	•	•	5	0·39	—	*2·0*	—	*12*	—	*West Linton.*
p Marchmont .. S	65	22nd	47	28th	62·7	49·0	55·4	+ 0·8	94	0	0	42	57·4	+1·3	•	•	2	0·46	- 0·12	5·0	- 1·1	29	- 6	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	67	28th	47	22nd	64·0	49·1	56·0	+ 0·6	98	0	0	41	56·1	+0·2	52·8	-0·1	5	0·40	- 0·10	2·9	—	17	—	Cockle Park.
a Shields	69	22nd	49	28th	63·3	51·4	56·9	+ 1·2	104	0	•	•	•	•	•	•	5	0·91	+ 0·42	•	•	•	•	
a Durham	67	22nd	48	22, 24, 28	64·1	49·1	56·1	- 0·4	99	0	0	45	•	•	•	•	4	0·45	- 0·03	2·9	- 2·8	17	-17	Durham.
a, North .. *p* Rounton	70	22nd	49	26, 28	63·9	50·0	56·5	+ 0·6	102	0	0	42	59·3	•	•	•	5	0·45	- 0·03	•	•	•	•	Rounton.
a West Witton	67	*22, 23*	*47*	*22, 26*	*63·7*	*49·1*	*55·9*	—	*97*	*0*	0	44	57·8	•	•	•	*5*	*0·32*	—	•	•	•	•	*West Witton.*
p Scarborough	67	28th	51	24th	63·4	52·1	57·4	+ 0·8	108	0	•	•	•	•	51·8	•	2	0·39	- 0·05	4·1	—	24	—	Scarborough.
p York	73	22nd	51	28th	66·4	52·7	59·1	+ 0·8	120	0	•	•	58·2	+1·6	54·3†	+0·7	5	0·45	- 0·06	3·4	- 2·5	20	-15	York.
											0	46	58·9	+1·3	53·0	+0·4	—	—	—	*1·6*	—	*10*	—	*Hull.*
a Spurn Head	65	23, 28	50	28th	62·6	52·1	57·0	+ 0·2	105	0	•	•	•	•	•	•	5	0·14	- 0·21	*4·0*	—	*24*	—	*Spurn Head.*
b, South .. *a* Lincoln	75	22nd	49	28th	67·3	51·7	59·0	- 0·3	119	0	•	•	60·6	+2·6	55·6	+1·5	5	0·31	- 0·15	•	•	•	•	Lincoln.
a Fulbeck	72	22nd	45	28th	66·1	49·1	57·0	- 1·7	105	0	0	40	60·9	+0·1	55·5	+0·5	4	0·22	- 0·25	4·1	—	25	—	Rauceby.
											•	•	•	•	•	•	—	—	—	4·6	—	28	—	Skegness.
											0	40	61·0	+0·5	57·6	+1·2	—	—	—	*3·5*	—	*21*	—	*Lowestoft.*
p Cromer	70	22nd	48	24, 28	63·3	50·6	56·5	- 1·1	102	0	•	•	•	•	•	•	5	0·40	—	2·4	—	14	—	Cromer.
p Little Massingham ..	76	22nd	47	28th	65·9	49·4	57·1	- 1·3	106	0	0	46	•	•	•	•	4	0·23	- 0·33	3·2	- 3·4	19	-20	Lit. Massingham.
a, North .. *a* Yarmouth	65	22, 23	42	28th	62·7	50·4	56·1	- 1·6	99	0	•	•	62·3	0·0	58·0	-0·7	5	0·41	- 0·06	3·4	—	21	—	Yarmouth.
a Norwich	73	22nd	46	22nd	64·7	50·9	57·3	- 0·8	*107*	0	0	41	60·4	•	•	•	4	0·24	—	*3·2*	—	*19*	—	*Norwich.*
p Geldeston	70	22nd	44	22nd	63·7	48·3	55·5	- 2·6	95	0	•	•	•	•	•	•	5	0·22	- 0·22	3·3	- 3·5	20	-21	Geldeston.
p Cambridge	75	22nd	47	22nd	67·6	51·6	59·0	- 0·6	119	0	0	41	61·0	+0·9	57·9	+1·1	2	0·09	- 0·40	4·2	- 2·4	26	-15	Cambridge.
a Felixstowe	*69*	*28th*	*49*	*28th*	*64·4*	*51·9*	*57·7*	*- 1·0*	*110*	*0*	•	•	•	•	•	•	*3*	*0·26*	—	*4·0*	—	*24*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	70	28th	47	28th	65·6	51·1	57·9	- 0·8	111	0	0	38	60·0	+1·0	58·1	+1·1	3	0·30	—	4·6	—	28	—	Clacton.
a Rothamsted	73	28th	45	22nd	66·3	48·9	57·0	- 1·4	105	0	•	•	•	•	•	•	1	0·06	- 0·45	4·5	- 2·0	27	-12	Rothamsted.
a Shoeburyness	*74*	*28th*	*48*	*22, 28*	*66·9*	*50·3*	*58·0*	*- 2·7*	*112*	*0*	0	44	62·4	+0·8	•	•	*4*	*0·08*	*- 0·30*	*5·6*	—	*34*	—	*Southend.*
p Tottenham	74	28th	49	22nd	67·4	52·3	59·3	- 0·7	121	0	0	48	•	•	58·9	+1·3	1	0·05	—	5·3	—	32	—	Tottenham.
											0	43	58·2	+0·6	52·7	0·0	—	—	—	*3·4*	—	*20*	—	*Huddersfield.*
4. MIDLAND COUNTIES.																								
a Harrogate	68	22nd	48	27th	62·7	49·4	55·6	- 0·8	95	0	0	43	56·3	+1·8	54·2	+1·3	4	0·58	+ 0·04	3·9	—	23	—	Harrogate.
a Bawtry	74	22nd	46	22nd	66·1	50·7	57·9	- 0·8	111	0	0	40	58·8	•	55·4	•	4	0·15	- 0·30	3·5	- 2·0	21	-12	Worksop.
p Buxton	*68*	*22nd*	*45*	*27th*	*60·1*	*47·6*	*53·4*	*- 2·0*	*80*	*0*	0	43	57·3	+0·8	51·7	+0·3	*6*	*0·69*	*- 0·06*	*4·0*	—	*24*	—	*Buxton.*
a, East .. *a* Nottingham	71	22nd	45	22nd	65·6	49·6	57·0	- 1·6	105	0	0	39	59·6	+1·5	56·3	+1·3	2	0·08	- 0·40	3·8	—	23	—	Nottingham.
p Birmingham, Edgbsn.	68	22, 28	48	26, 27	63·7	49·7	56·2	- 1·5	99	0	0	41	54·6	+1·3	51·0	+0·5	1	0·11	- 0·39	3·7	—	22	—	Birmingham.
a Raunds	76	22nd	43	22nd	68·0	48·7	57·7	- 1·5	110	0	0	39	60·2	•	55·3	•	1	0·01	—	•	•	•	•	Raunds.
p Oxford	74	28th	48	22, 26, 28	66·9	50·4	58·1	- 1·3	113	0	0	40	•	•	•	•	1	0·06	- 0·47	5·3	- 1·2	32	- 7	Oxford.
											0	44	58·1	+1·7	53·1	+1·0	—	—	—	5·5	—	33	—	Sheffield.
a Cheadle	70	22nd	42	27th	63·9	48·4	55·6	- 1·0	95	0	0	40	•	•	•	•	1	0·02	- 0·58	•	•	•	•	Cheadle.
p Shrewsbury	72	28th	47	28th	66·0	49·3	57·1	- 1·1	106	0	0	39	•	•	•	•	1	0·13	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	77	28th	45	28th	67·7	48·4	57·4	- 1·5	108	0	0	38	•	•	•	•	2	0·11	- 0·39	•	•	•	•	Hereford.
a Cirencester	75	25, 26, 27	44	22, 28	72·4	47·0	58·8	+ 1·2	118	0	0	42	58·5	•	55·0	•	2	0·04	- 0·51	6·1	- 0·3	37	- 2	Cirencester.
a Bath	73	28th	45	26th	67·1	49·6	57·7	- 1·4	110	0	•	•	59·8	-0·8	56·8	-0·6	1	0·11	- 0·43	7·7	—	47	—	Bath.
5. ENGLAND, S.E.																								
											0	41	63·2	+4·4	58·3	+1·1	—	—	—	•	•	•	•	Canterbury.
p Kew	75	28th	48	22nd	67·1	51·7	58·9	- 0·7	118	0	0	40	60·0	+0·7	56·1	+0·4	1	0·02	- 0·48	5·2	- 1·3	32	- 8	Kew.
a Marlborough	76	28th	46	28th	67·0	46·1	55·8	- 2·1	97	0	0	37	•	•	54·4	—	1	0·09	- 0·49	6·3	+ 0·3	38	+ 2	Marlborough.
a Margate	71	22nd	47	24th	66·4	51·7	58·5	- 0·9	116	0	0	42	59·1	+0·1	55·0	-1·2	3	0·23	- 0·20	4·1	- 2·1	25	-13	Margate.
a Wisley, Surrey ..	76	28th	43	28th	68·0	48·6	57·6	- 3·0	109	0	1	30	61·1	+1·3	57·2	+0·5	1	0·02	—	6·6	—	41	—	Wisley.
											0	41	61·8	-0·8	57·4	+0·1	—	—	—	6·6	—	41	—	Worthing.
p Salisbury (Wilton) ..	75	28th	43	25, 28	68·1	47·4	57·0	- 3·2	105	0	0	33	61·1	•	•	•	1	0·08	- 0·43	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	70	28th	46	28th	64·6	50·1	56·9	- 1·6	104	0	•	•	•	•	•	•	1	0·40	+ 0·03	4·7	—	29	—	Littlestone.
p Hastings.. ..	70	28th	45	25th	65·0	50·4	57·2	- 1·8	106	0	0	41	61·4	•	58·1	•	2	0·05	- 0·41	*6·0*	*- 1·6*	*37*	*-10*	*Hastings.*
p Southampton	76	28th	46	25th	67·0	50·4	58·1	- 2·8	113	0	0	41	•	•	•	•	1	0·05	- 0·44	6·2	- 0·8	38	- 5	Southampton.
a Ventnor	70	28th	48	25th	65·4	51·4	57·9	- 2·2	111	0	•	•	•	•	•	•	2	0·04	- 0·42	7·3	+ 0·8	45	+ 5	Ventnor.
											0	42	60·5	-1·3	58·1	-0·2	—	—	—	*6·3*	—	*39*	—	*Portsmouth.*
											•	•	60·5	•	57·8	•	—	—	—	7·6	+ 0·1	47	+ 1	Eastbourne.
LONDON.											•	•	58·9	•	57·6	•	—	—	—	*6·6*	—	*41*	—	*Bournemouth.*
											•	•	•	•	•	•	—	—	—	•	•	•	•	*Brighton.*
a Westminster	*76*	*28th*	*49*	*28th*	*68·3*	*51·7*	*59·4*	*- 0·9*	*122*	*0*	0	41	•	•	•	•	*3*	*0·10*	*- 0·40*	*4·9*	*- 0·8*	*30*	*- 5*	*Westminster.*
a Greenwich	*78*	*22, 28*	*47*	*22nd*	*70·0*	*50·9*	*59·8*	*- 1·2*	*125*	*0*	0	37	•	•	•	•	*3*	*0·05*	*- 0·43*	*4·7*	*- 2·2*	*29*	*-13*	*Greenwich.*
a Hampstead	*76*	*28th*	*47*	*28th*	*66·3*	*50·6*	*57·9*	—	*111*	*0*	0	38	•	•	•	•	*3*	*0·03*	—	*5·6*	—	*34*	—	*Hampstead.*
a Camden Square ..	*78*	*28th*	*48*	*28th*	*70·3*	*51·4*	*60·2*	—	*127*	*0*	0	40	•	•	•	•	*2*	*0·10*	—	*5·8*	—	*35*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	69	22, 24, 27	49	22, 28	59·0	50·1	54·2	- 2·4	85	0	•	•	•	•	•	•	6	0·62	- 0·14	•	•	•	•	
p Glasgow	65	25th	50	25, 27, 28	62·0	51·6	56·4	+ 0·3	101	0	0	45	•	•	•	•	4	0·47	- 0·16	3·1	- 2·2	18	-13	Glasgow.
p Rothesay ..	64	25, 26	50	26th	61·1	51·4	55·9	- 0·9	97	0	•	•	•	•	53·4	0·0	4	0·49	- 0·27	•	•	•	•	
a Kilmarnock ..	65	25th	48	27th	62·1	50·1	55·7	- 1·0	96	0	•	•	•	•	•	•	5	0·25	—	*4·1*	—	*24*	—	*Kilmarnock.*
a Colmonell ..	64	22nd	49	27th	60·3	50·6	55·1	- 1·2	92	0	0	46	•	•	•	•	4	0·42	- 0·19	•	•	•	•	
p Dumfries ..	66	25th	49	24, 26, 27	61·9	50·1	55·6	- 1·9	95	0	0	42	58·6	•	55·2	•	3	0·90	+ 0·32	*3·3*	—	*19*	—	*Dumfries.*
p Cally, Gatehouse	66	25th	47	22, 23	63·1	48·4	55·2	- 1·5	92	0	•	•	•	•	•	•	3	0·65	- 0·06	•	•	•	•	
b I. OF MAN																								
p Douglas	62	28th	49	27th	59·6	50·1	54·5	- 1·6	88	0	0	47	•	•	•	•	3	0·31	- 0·31	3·4	- 3·7	20	-22	Douglas.
											0	45	55·9	-0·5	52·1	-0·3	—	—	—	*2·2*	—	*13*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											?	?	•	•	•	•	—	—	—	4·4	—	26	—	Hoylake.
p Aspatria	66	25th	48	27th	62·1	49·7	55·5	- 0·4	95	0	0	43	57·6	•	52·0	•	4	0·88	+ 0·24	2·8	—	17	—	Aspatria.
p Newton Rigg	66	25th	47	22, 27, 28	62·7	48·3	55·0	- 0·4	91	0	0	41	58·2	+0·7	52·4	-0·6	4	0·50	- 0·03	3·7	- 3·0	22	-17	Newton Rigg.
p Stonyhurst	64	22nd	48	23rd	60·4	49·9	54·8	- 2·8	90	0	0	42	•	•	•	•	5	0·28	- 0·46	1·4	- 5·0	8	-30	Stonyhurst.
p Blackpool	64	23rd	48	23rd	61·0	52·0	56·2	- 1·4	99	0	0	43	57·2	•	52·8	•	3	0·36	- 0·17	4·2	- 2·3	25	-14	Blackpool.
p Manchester (Whit. Pk.)	66	22nd	50	24, 25	62·4	51·3	56·5	- 2·0	102	0	•	•	•	•	•	•	4	0·48	- 0·06	*2·4*	*- 2·9*	*14*	*-17*	*Whit. Park.*
a Liverpool (Bidston) ..	65	23rd	49	25th	60·3	51·3	55·5	- 2·8	95	0	•	•	•	•	•	•	3	0·40	- 0·15	*4·3*	—	*26*	—	*Liverpool.*
a Hawarden Bridge ..	63	28th	50	23rd	61·0	51·9	56·1	- 2·4	99	0	0	42	60·6	-0·4	57·9	0·0	2	0·32	- 0·14	*3·7*	*- 3·0*	*22*	*-18*	*Southport.*
b, NORTH WALES.											0	46	58·6	+1·1	56·1	+0·8	—	—	—	*3·0*	—	*18*	—	*Manchester (City)*
p Llandudno	69	28th	49	23, 24	63·0	51·0	56·6	- 1·6	102	0	•	•	•	•	•	•	3	0·32	- 0·15	3·6	- 3·0	22	-18	Llandudno.
a Holyhead	65	28th	50	24th	60·0	51·4	55·4	- 1·3	94	0	•	•	•	•	•	•	2	0·11	- 0·41	*5·3*	—	*33*	—	*Holyhead.*
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	5·2	—	31	—	Aberdovey.

For notes see also opposite page.

† At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway used for this, and future reports.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				5·3	—	32	—	
a Llangammarch Wells	68	26th	45	23rd	62·1	46·9	54·0	− 2·8	84	0	0	37	56·5	+1·0	52·9	+0·8	3	0·35	—	5·7	—	35	—	Aberystwyth.
a Pembroke	62	28th	51	24, 27	59·1	51·7	55·1	− 1·6	92	0	•	•	°	•	°	°	1	0·35	− 0·15	8·1	+ 0·7	49	+ 5	Llangammarch
p Cardiff	73	28th	47	25, 28	65·1	48·7	56·3	− 3·1	100	0	0	40	59·8	0·0	56·1	−0·1	2	0·25	− 0·37	*9·2*	—	*56*	—	Pembroke. [Wells
																								Cardiff.
b, ENGLAND, S.W.																								
a Clifton	74	28th	49	26th	66·4	51·7	58·5	− 1·1	116	0	0	45	•	•	•	•	2	0·12	− 0·46	*8·1*	—	*49*	—	*Clifton.*
a Shaftesbury	71	28th	44	25th	64·6	48·3	55·9	− 1·8	97	0	•	•	58·1	•	55·7	•	1	0·08	− 0·48	•	•	•	•	Shaftesbury.
a Arlington	62	26, 28	43	25, 26	60·9	46·3	53·1	− 3·2	78	0	•	•	°	•	°	•	3	0·32	− 0·46	•	•	•	•	Arlington.
a Newquay	*62*	*28th*	*45*	*25th*	*59·7*	*50·7*	*54·9*	*− 3·3*	*89*	*0*	•	•	59·5	•	•	•	*3*	*0·38*	*− 0·09*	9·9	+ 2·8	62	+17	Newquay.
a Cullompton	73	28th	40	26th	67·3	46·1	56·0	− 2·5	98	0	0	35	61·3	•	•	•	3	0·15	− 0·39	7·3	+ 0·9	45	+ 6	Cullompton.
a Portland	65	25, 26	51	25th	62·0	53·4	57·4	− 0·5	108	0	•	•	•	•	•	•	1	0·01	—	8·2	—	51	—	*Weymouth.*
p Plymouth	70	28th	46	25th	64·6	50·2	56·9	− 2·7	104	0	0	40	61·1	0·0	•	•	2	0·26	− 0·28	8·9	+ 2·0	55	+13	Plymouth.
p Falmouth	65	28th	49	24, 25	61·3	50·9	55·7	− 2·8	96	0	•	•	•	•	•	•	2	0·39	− 0·17	9·4	+ 2·0	58	+13	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	58	22, 23	47	26th	56·1	49·3	52·5	− 2·3	74	0	•	•	•	•	•	•	4	0·23	− 0·32	•	•	•	•	• •
a Blacksod Point ..	61	28th	45	26th	59·3	48·9	53·7	− 2·7	82	0	•	•	•	•	•	•	5	0·84	+ 0·21	•	•	•	•	• •
p Markree Castle ..	64	28th	40	26th	60·7	47·1	53·4	− 2·2	80	0	0	34	58·2	•	53·3	•	4	0·71	+ 0·01	4·0	− 1·2	24	− 7	Markree Castle.
a Birr Castle	65	28th	42	25, 26	61·4	46·3	53·3	− 3·9	79	0	•	•	•	•	•	•	3	0·31	− 0·26	*4·5*	*− 0·9*	*27*	*− 5*	*Birr Castle.*
10. IRELAND, S.																								
b, East .. *p* Armagh	63	28th	43	26th	60·7	48·4	54·1	− 2·3	85	0	0	38	57·8	−0·3	54·2	−0·5	3	0·21	− 0·39	1·3	− 4·2	8	−25	Armagh.
a Donaghadee	66	28th	48	26th	58·6	49·7	53·8	− 2·2	83	0	•	•	•	•	•	•	4	1·69	+ 1·13	•	•	•	•	• •
											0	39	58·4	+0·1	55·0	−0·3	—	—	—	•	•	•	•	Trinity Coll.
											0	31	•	•	•	•	—	—	—	5·0	− 1·4	30	− 8	Phœnix Park.
a, East .. *p* Dublin, City	71	28th	47	25th	63·9	50·9	57·0	− 2·2	105	0	0	44	•	•	•	•	3	0·17	− 0·31	•	•	•	•	Dublin City.
a Kilkenny	68	28th	42	25, 26	63·7	47·0	54·8	− 3·4	90	0	•	•	•	•	•	•	2	0·16	− 0·41	•	•	•	•	• •
a Waterford	69	28th	45	25, 26	62·0	47·9	54·5	− 3·9	88	0	•	•	•	•	•	•	1	0·17	− 0·50	•	•	•	•	• •
b, West .. *a* Birr Castle	65	28th	42	25, 26	61·4	46·3	53·3	− 3·9	79	0	•	•	•	•	•	•	3	0·31	− 0·26	4·5	− 0·9	27	− 5	Birr Castle.
a Foynes	65	22, 25	45	26th	62·3	50·4	55·9	− 2·1	97	0	•	•	•	•	•	•	4	0·52	− 0·06	•	•	•	•	• •
a Cahir	70	28th	42	26th	64·4	46·9	55·0	− 2·8	91	0	•	•	•	•	•	•	3	0·28	—	•	•	•	•	• •
a Killarney	72	28th	41	25th	64·6	49·0	56·3	− 1·1	100	0	•	•	•	•	•	•	2	0·38	− 0·30	•	•	•	•	• •
a Valencia	63	25th	42	25th	59·3	50·4	54·5	− 3·0	88	0	•	•	•	•	•	•	5	0·76	− 0·01	6·6	+ 0·6	40	+ 4	Valencia.
a Roche's Point	65	27, 28	47	25th	60·9	49·7	54·9	− 2·8	90	0	•	•	•	•	•	•	4	0·38	− 0·26	5·6	—	34	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	64	28th	49	25, 26	61·3	51·0	55·8	− 3·1	97	0	•	•	•	•	•	•	2	0·26	− 0·19	9·7	+ 1·7	60	+11	Scilly.
a Jersey, St. Aubins ..	65	28th	47	22nd	62·9	51·9	57·0	− 3·0	105	0	•	•	•	•	•	•	1	0·02	− 0·47	9·6	+ 1·5	60	+10	St. Heliers.
a Guernsey (Villa Carey	68	23rd	49	25th	64·4	51·0	57·2	− 2·3	106	0	0	42	60·4	−0·8	57·5	−0·7	2	0·04	− 0·45	9·8	+ 1·6	61	+10	Guernsey.*

Additional Sunshine Means:—*Bognor, 6·6 hrs. 41 °/₀; Ramsgate, 5·2 hrs. 32 °/₀; Rhyl,* hrs. °/₀; *Salcombe, 10·1 hrs. 63 °/₀; Tenby, 7·8 hrs. (+0·3) 48 °/₀ (+2); Torquay, 9·1 hrs. (+1·4) 57 °/₀ (+9).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, June 28th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°	
SCOTLAND, N. ..	Lerwick‡	51	51	51·0	+0·8
	Kirkwall	55	52	53·7	+1·3
	Wick	50	49	49·5	−2·2
SCOTLAND, E. ..	Cromarty	55	52	53·4	−0·4
	Pennan Bay	55	53	54·0	+1·5
	Aberdeen, Cove Bay	54	52	52·7	+1·1
ENGLAND, N.E. ..	Burnmouth, Berwick	52	47	49·5	−1·3
	Scarborough	58	55	56·3	+3·4
ENGLAND, E. ..	Shipwash Lightship	61	57	59·6	+2·1
ENGLAND, S.E. ..	Eastbourne‡	61	60	60·6	+0·7

DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°	
SCOTLAND, W. ..	Lamlash	58	54	55·7	+2·6
	Ballantrae	55	52	53·5	+0·1
ENGLAND, N.W. ..	Port Erin	55	53	53·6	+0·5
	Newquay	58	57	57·1	−1·1
	Scilly	59	56	57·6	—
ENGLAND, S.W. ..	Plymouth‡	58	57	57·1	−0·2
	Salcombe	61	56	57·8	+2·5
	Sheephaven	55	53	53·9	−2·6
IRELAND, N.W. ..	Teelin	57	54	55·3	−2·0
	Cleggan	56	54	55·7	−0·5
IRELAND, S.W. ..	Seafield	63	58	61·0	+3·0
IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-SIXTH WEEK—June 22nd to June 28th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	67	45	58·3	48·7	53·2	− 1·1	78	− 8	0	0	4	0	0·63	−0·10	1·8	−2·8	10	−16
Eastern.																		
1. SCOTLAND, EAST ...	70	40	62·3	48·5	54·9	− 1·1	90	− 8	0	0	5	+ 2	0·52	−0·03	3·6	−2·4	21	−14
2. ENGLAND, N.E.	75	45	64·6	50·8	57·2	− 0·4	106	− 3	0	0	4	+ 2	0·41	−0·03	3·7	−2·9	22	−17
3. ENGLAND, EAST ...	76	42	65·2	50·4	57·3	− 2·3	107	− 16	0	0	3	+ 1	0·22	−0·15	3·9	−3·5	23	−21
4. MIDLAND COUNTIES ...	77	42	66·4	49·2	57·2	− 2·0	106	− 15	0	0	2	− 1	0·13	−0·35	4·9	−1·6	30	−10
5. ENGLAND, S.E.	76	40	66·5	49·8	57·5	− 2·7	109	− 18	0	0	1	− 2	0·11	−0·26	6·0	−1·5	37	− 9
Western.																		
6. SCOTLAND, WEST ...	66	47	61·1	50·3	55·3	− 1·6	93	− 11	0	0	4	+ 1	0·51	−0·21	3·3	−2·8	19	−16
7. ENGLAND, N.W.	69	47	61·4	50·8	55·7	− 2·5	96	− 18	0	0	3	− 1	0·41	−0·18	3·6	−2·8	21	−16
8. ENGLAND, S.W.	74	40	63·3	49·4	55·9	− 2·9	97	− 21	0	0	2	0	0·23	−0·28	7·8	+0·8	48	+ 5
9. IRELAND, NORTH ...	66	40	59·5	48·3	53·5	− 3·6	81	− 25	0	0	4	0	0·67	+0·03	2·7	−2·4	16	−14
10. IRELAND, SOUTH ...	72	41	62·5	48·7	55·1	− 3·4	92	− 23	0	0	3	0	0·35	−0·25	5·4	−0·2	33	− 1
11. ENGLISH CHANNEL ...	68	47	62·9	51·3	56·7	− 3·1	103	− 21	0	0	2	− 1	0·11	−0·29	9·7	+1·5	61	+ 8
	THE SEASON (**Summer**).—Aggregates, &c., for the Period of 4 Weeks, June 1st to June 28th, 1913.																	
0. SCOTLAND, NORTH ...	76	33	*	*	*	*	300	− 6	0	− 2	17	+ 2	4·22	+ 1·62	4·4	−0·8	25	− 4
Eastern.																		
1. SCOTLAND, EAST ...	78	35	*	*	*	*	333	− 10	0	− 1	15	+ 3	2·17	+ 0·13	5·9	−0·1	34	− 1
2. ENGLAND, N.E.	82	37	*	*	*	*	390	+ 16	0	0	13	+ 2	1·14	− 0·57	6·6	+0·3	39	+ 2
3 ENGLAND, EAST ...	84	38	*	*	*	*	437	+ 11	0	0	9	− 2	0·90	− 0·96	6·8	−0·1	42	0
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	412	− 12	0	0	10	− 1	0·96	− 0·94	6·2	0·0	37	0
5. ENGLAND, S.E.	84	38	*	*	*	*	429	− 22	0	0	6	− 5	0·61	− 1·13	6·7	−0·3	41	− 2
Western.																		
6. SCOTLAND, WEST ...	77	40	*	*	*	*	351	− 26	0	0	17	+ 4	2·93	+ 0·27	5·0	−1·4	30	− 8
7. ENGLAND, N.W.	78	36	*	*	*	*	380	− 24	0	0	14	+ 1	2·40	+ 0·32	5·5	−1·1	33	− 6
8. ENGLAND, S.W.	83	34	*	*	*	*	377	− 49	0	0	12	0	1·54	− 0·55	6·2	−0·7	38	− 4
9. IRELAND, NORTH ...	75	35	*	*	*	*	319	− 57	0	0	17	+ 2	3·37	+ 0·91	3·9	−1·7	23	−10
10. IRELAND, SOUTH ...	78	38	*	*	*	*	349	− 69	0	0	17	+ 4	2·93	+ 0·59	5·3	−0·8	32	− 5
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	399	− 49	0	0	12	− 1	0·90	− 0·76	7·2	−0·9	45	− 6
	THE YEAR.—Aggregates, &c., for the Period of 26 Weeks, December 29th, 1912, to June 28th, 1913.																	
0. SCOTLAND, NORTH ...	76	21	*	*	*	*	705	− 49	424	−133	123	+ 4	25·91	+2·47	2·9	−0·6	23	− 5
Eastern.																		
1. SCOTLAND, EAST ...	78	11	*	*	*	*	778	− 96	601	− 19	107	+11	15·40	+2·10	3·5	−0·6	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	975	+ 49	406	− 69	99	+11	12·43	+2·24	3·6	−0·7	29	− 5
3. ENGLAND, EAST ...	84	20	*	*	*	*	1,217	+100	303	−218	90	+ 4	10·26	+0·08	4·1	−0·4	33	− 4
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	1.122	− 21	392	−141	97	+12	14·75	+3·14	3·5	−0·6	28	− 5
5. ENGLAND, S.E.	84	22	*	*	*	*	1,236	+ 18	221	−160	88	+ 6	12·89	+1·54	4·3	−0·2	34	− 2
Western.																		
6. SCOTLAND, WEST ...	77	17	*	*	*	*	918	− 51	323	−102	117	+15	23·88	+3·40	3·2	−0·9	25	− 8
7. ENGLAND, N.W.	78	10	*	*	*	*	1,002	− 26	298	− 88	110	+16	18·69	+4·32	3·5	−0·6	28	− 5
8. ENGLAND, S.W.	83	12	*	*	*	*	1,128	− 63	221	− 80	112	+20	22·02	+5·85	3·8	−0·8	31	− 6
9. IRELAND, NORTH ...	75	21	*	*	*	*	951	− 85	297	− 48	127	+17	21·54	+5·12	3·3	−0·6	26	− 5
10. IRELAND, SOUTH ...	78	22	*	*	*	*	1.122	−115	243	− 16	129	+30	25·34	+7·48	3·6	−0·8	29	− 6
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	1,357	− 10	38	− 71	107	+ 7	15·73	+2·15	4·4	−1·1	35	− 9

M.O., July 2, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 105

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.: or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH: or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 27. TWENTY-SEVENTH WEEK, SUNDAY, JUNE 29TH, TO SATURDAY, JULY 5TH, 1913.

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I.—General Remarks.

Weather. In the earlier half of the week the weather was fine and dry over the United Kingdom generally. Later on the conditions became less settled in the north and east, and by the end of the period changeable, showery weather had extended to all but the south-western districts. Thunder was heard at West Witton on June 30th, and at Dover on July 1st and 2nd.

Temperature was considerably below the average in England E. and slightly below it in most of the other English districts, as well as in Ireland N. and the English Channel. In Scotland and in England S.W. and Ireland S. it was above the normal. The highest readings occurred mainly on June 29th or 30th in the English districts, but later in the week in Ireland and Scotland; the actual readings ranged from 83° in England S.E. and 82° in England S.W. to 74° in Scotland W. and to 73° in England N.E. On July 4th the thermometer at many stations failed to reach 60°. The lowest of the minima, which occurred at times varying greatly in the different districts, ranged from 42° in England S.W. to 47° in Scotland N. and Ireland N. and to 51° in the English Channel. The lowest grass readings reported were 34° at Dublin (Phœnix Park), 35° at Llangammarch Wells and 37° at Wisley. The temperature of the soil was, as a rule, above the average, but at some places in the east and north-east of England the thermometer at a depth of 1 foot was slightly below the normal.

Mean Temperature of the Sea was a little above the normal, but on many parts of our western and northern coasts it was lower than in the corresponding week of last year. The mean values ranged from 63°·8 at Seafield and 61°·7 at Eastbourne to a little below 51° at Wick and Burnmouth.

Rainfall was considerably less than the average. In most of the western districts the total amounted to less than 0·10 in., and at several stations in England S.W. and Ireland S. the week was rainless.

Bright Sunshine was very deficient in most of the English districts, and especially in England E., where the mean daily duration was little more than 2½ hours—only 16 per cent. of the possible. In Ireland, the south-west of England and the west and north of Scotland the amount was in excess of the average. In Scotland W. the mean daily duration amounted to over 9 hours, and was equal to as much as 54 per cent. of the possible.

Barometer and Wind. This period witnessed the gradual withdrawal to the westward of a large anticyclone which, at the commencement of the week extended from the Atlantic over practically the whole of western Europe. On June 29th, when the highest barometrical pressures were reported over France and the western and south-western portions of the United Kingdom, the prevailing winds were North-Westerly, but on the two succeeding days they became rather variable. During the remainder of the period, when the highest pressures lay over the Atlantic, and cyclonic systems of moderate intensity appeared over various parts of Northern Europe, the wind was light to moderate from between West and North over the United Kingdom generally.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 107.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Moderate	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Moderate
	Rainfall ...	Light	Light	Light	Moderate	Light	Moderate	Very light	Light	Light	Very light	Very light	Light
	Sunshine ...	~~Abundant~~ Most	Scanty	Very scanty	Very scanty	Very scanty	Scanty	Very abundant	Moderate	Moderate	Abundant	Abundant	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 5 weeks from June 1st, 1913.	Warmth ...	2 * 1	0 * 1	2 * 2	2 * 2	1 * 2	1 * 2	1 * 2	1 * 2	1 * 3	0 * 3	0 * 3	0 * 2
	Rainfall ...	2 * 2	1 * 2	0 * 3	0 * 1	0 * 3	0 * 3	2 * 1	2 * 1	1 * 3	1 * 1	2 * 1	0 * 2
	Sunshine ...	~~2~~ 1 * 2	2 * 2	2 * 2	1 * 2	1 * 2	1 * 3	1 * 2	1 * 2	0 * 1	1 * 3	1 * 1	1 * 3

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(30783—24.) Wt. 196—786. 450 7/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Rainfall. Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	57	2, 5	42	*30th*	*55·7*	*47·9*	*51·5*		*67*	*0*							*5*	*0·22*	—	*3·7*	—	*20*	—	*Baltasound.*
a, Islands .. *a* Lerwick ..	58	1, 2	47	30, 5	56·3	48·7	51·2	+ 1·1	71	0	•	•	•	•	•	•	2	0·09	—	3·9	—	43	—	Deerness.
a Stornoway ..	65	2nd	49	4th	60·1	50·7	55·1	+ 1·8	92	0	•	•	•	•	•	•	4	0·25	- 0·38	2·0	- 3·6	11	- 20	Stornoway.
a Castlebay, Barra Isd.‡ ..	*61*	*2nd*	*50*	*30, 3-5*	*57·7*	*50·7*	*54·0*	+ *0·4*	*84*	*0*	•	•	•	•	•	•	*4*	*0·14*	—	*3·3*	—	*19*	—	*Castlebay.*
b, Mainland. *a* Wick ..	65	3rd	48	30, 1, 5	58·3	49·0	53·3	- 0·2	79	0	•	•	•	•	•	•	4	0·32	- 0·22	•	•	•	•	
p Strathpeffer ..	71	1st	49	30th	66·6	52·0	58·8	+ 3·5	118	0	•	•	•	•	•	•	1	0·09	- 0·48	6·3	+ 1·5	26	+ 9	Strathpeffer.
p Glencarron ..	66	2nd	48	30, 4, 5	59·9	49·8	54·5	+ 1·0	88	0	•	•	•	•	•	•	4	0·40	- 0·91	•	•	•	•	
p Fort Augustus ..	75	3rd	49	1st	67·3	51·6	58·9	+ 3·7	118	0	•	•	•	•	•	•	1	0·33	- 0·26	5·5	+ 1·5	32	+ 9	Fort Augustus.
p Fort William ..	74	3rd	49	1st	67·9	51·9	59·3	+ 3·4	121	0	•	•	•	•	•	•	1	0·20	- 0·80	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle .. S	71	3rd	48	5th	63·9	51·1	57·1	+ 0·8	106	0	0	46	58·5	+1·5	53·0	+0·2	—	—	—	2·5	—	14	—	Crathes S.
a Nairn	71	3rd	48	30th	64·6	49·9	56·7	+ 1·2	103	0	•	•	•	•	•	•	3	0·19	- 0·41	*2·4*	—	*14*	—	*Gordon Castle.*
a Aberdeen ..	70	2nd	50	5th	62·1	52·3	56·9	+ 1·7	104	0	•	•	•	•	•	•	2	0·14	- 0·36	4·7	—	27	—	Nairn.
a Balmoral ..	74	3rd	45	29th	67·7	47·9	57·1	+ 3·4	106	0	0	43	•	•	51·8	+0·2	4	0·39	- 0·15	2·8	- 2·9	16	-17	Aberdeen.
a Crieff	81	3rd	46	5th	72·0	56·4	60·5	+ 3·4	130	0	•	•	•	•	•	•	1	0·48	- 0·06	•	•	•	•	Balmoral.
a Leith	76	2nd	48	29th	66·7	52·1	58·9	+ 1·7	118	0	•	•	•	•	•	•	1	0·06	- 0·60	5·4	—	31	—	Balruddery.
p West Linton ..	73	2, 3	46	30, 2	67·6	48·1	57·2	+ 2·3	106	0	0	43	•	•	•	•	3	0·18	- 0·35	•	•	•	•	
p Marchmont ..	73	2nd	48	29th	65·3	51·0	57·7	+ 2·2	110	0	0	44	59·4	+2·2	•	•	2	0·21	—	*4·6*	—	27	—	*West Linton.*
																	2	0·47	- 0·16	5·1	- 0·8	30	- 5	Marchmont.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	72	2nd	48	1st	64·1	51·0	57·1	+ 1·1	108	0	0	42	58·0	+1·0	53·4	0·0	3	0·30	- 0·25	4·4	—	26	—	Cockle Park.
a Shields	67	29, 2	50	29th	62·1	52·4	56·9	+ 0·6	104	0	•	•	•	•	•	•	3	0·27	- 0·23	•	•	•	•	
p Durham	71	29th	49	30, 1, 5	63·8	50·9	56·9	- 0·3	104	0	0	43	•	•	•	•	4	0·35	- 0·21	3·4	- 2·2	29	-13	Durham.
a, North .. *p* Rounton	66	29, 2	45	1st	62·6	48·9	55·3	- 1·6	93	0	0	39	59·1	•	•	•	3	0·15	- 0·37	•	•	•	•	Rounton.
a West Witton	*72*	*29th*	*45*	*5th*	*66·3*	*51·6*	*58·4*	—	*115*	*0*	0	42	59·6	•	52·5	•	*4*	*0·07*	—	•	•	•	•	*West Witton.*
p Scarborough	65	29th	51	5th	60·4	52·3	56·1	- 1·3	99	0	•	•	•	•	57·0†	•	4	0·24	- 0·24	2·7	—	16	—	Scarborough.
p York	71	29th	50	5th	65·6	53·4	59·1	+ 0·2	120	0	•	•	59·8	+2·2	55·0	+0·8	3	0·09	- 0·43	2·9	- 2·9	17	-17	York.
											0	42	57·7	-0·5	53·3	+0·1	—	—	—	*1·5*	—	*9*	—	*Hull.*
a Spurn Head	63	29th	51	1, 4, 5	59·6	51·6	55·3	- 2·6	93	0	•	•	•	•	•	•	2	0·13	- 0·23	*3·0*	—	*18*	—	*Spurn Head.*
b, South .. *a* Lincoln	72	29th	49	5th	65·1	52·1	58·2	- 1·5	113	0	•	•	60·2	+1·5	55·9	+1·3	3	0·17	- 0·30	•	•	•	•	Lincoln.
a Fulbeck	73	29th	45	30th	66·0	49·0	56·9	- 2·5	104	0	0	41	61·2	-0·4	55·9	+0·1	2	0·09	- 0·38	2·7	—	16	—	Rauceby.
											•	•	•	•	•	•	—	—	—	3·3	—	20	—	Skegness.
3. ENGLAND, E.											0	44	58·8	-2·3	57·1	+0·1	—	—	—	*1·1*	—	*7*	—	*Lowestoft.*
p Cromer	63	29th	50	1, 4, 5	58·0	50·7	54·1	- 4·4	85	0	•	•	•	•	•	•	5	0·11	—	1·3	—	8	—	Cromer.
p Little Massingham ..	71	29th	46	5th	62·1	49·6	55·4	- 3·8	94	0	0	45	•	•	•	•	2	0·20	- 0·37	2·5	- 4·0	15	-24	Lit. Massingham.
a, North .. *a* Yarmouth ..	63	29th	48	5th	58·6	51·1	54·6	- 3·9	88	0	•	•	59·3	-3·7	57·7	-1·6	2	0·20	- 0·30	1·2	—	7	—	Yarmouth.
a Norwich	66	29th	46	5th	60·3	51·0	55·3	- 3·8	93	0	0	42	58·8	•	•	•	4	0·19	—	*1·7*	—	*10*	—	*Norwich.*
p Geldeston ..	66	28th	47	5th	61·4	50·6	55·6	- 3·2	95	0	•	•	•	•	•	•	1	0·17	- 0·29	1·3	- 5·6	8	-34	Geldeston.
p Cambridge	72	29th	44	30th	64·7	51·1	57·4	- 2·8	108	0	0	39	60·7	-0·1	57·9	+0·6	3	0·24	- 0·26	3·0	- 3·7	18	-23	Cambridge.
a Felixstowe	*72*	*29th*	*48*	*30th*	*64·1*	*51·6*	*57·4*	- *2·3*	*108*	*0*	•	•	•	•	•	•	*3*	*0·45*	—	*3·1*	—	*19*	—	*Felixstowe.*
a Clacton-on-Sea ..	72	29th	47	30th	64·7	51·1	57·4	- 2·2	108	0	0	38	59·2	-0·1	58·0	+0·4	3	0·48	—	3·1	—	19	—	Clacton.
b, South .. *a* Rothamsted ..	74	29th	48	30th	67·0	51·0	58·4	- 0·4	115	0	•	•	•	•	•	•	3	0·28	- 0·25	4·1	- 2·6	25	-16	Rothamsted.
a Shoeburyness	*74*	*29th*	*49*	*30, 1*	*65·7*	*51·7*	*58·2*	- *3·3*	*113*	*0*	0	47	63·0	+0·6	•	•	*3*	*0·55*	+ *0·15*	*3·8*	—	*23*	—	*Southend.*
p Tottenham	77	29th	52	30-3	69·1	53·3	60·7	- 0·1	131	0	0	50	•	•	59·5	+1·3	3	0·37	—	4·4	—	27	—	Tottenham.
4. MIDLAND COUNTIES.											0	44	60·0	+0·9	53·3	0·0	—	—	—	*3·3*	—	*20*	—	*Huddersfield.*
a Harrogate	72	29th	46	5th	65·4	50·9	57·7	+ 0·9	110	0	0	42	57·8	+2·6	54·9	+1·5	2	0·15	- 0·39	3·0	—	18	—	Harrogate.
a Bawtry	72	29th	49	1st	66·6	53·7	59·7	+ 0·6	124	0	0	40	59·9	•	55·7	•	3	0·15	- 0·32	3·0	- 2·5	18	-15	Worksop.
p Buxton	*67*	*1st*	*47*	*29th*	*61·9*	*50·3*	*55·7*	- *0·7*	*96*	*0*	0	45	57·4	-0·4	52·1	+0·2	*2*	*0·08*	- *0·71*	*1·9*	—	*11*	—	*Buxton.*
a, East .. *a* Nottingham ..	71	2nd	47	30th	66·7	51·9	58·8	- 0·4	118	0	0	43	60·7	+1·9	56·7	+1·3	2	0·13	- 0·37	3·4	—	21	—	Nottingham.
p Birmingham, Edgbsn.	73	1st	51	5th	67·0	53·7	59·9	+ 1·4	125	0	0	46	56·2	+2·1	51·3	+0·4	3	0·16	- 0·34	2·9	—	18	—	Birmingham.
a Raunds	75	29th	46	30th	67·0	50·9	58·4	- 1·7	115	0	0	42	60·8	•	55·5	•	3	0·20	—	•	•	•	•	Raunds.
p Oxford	78	29th	51	30th	69·7	54·1	61·4	+ 1·4	136	0	0	47	•	•	•	•	3	0·09	- 0·45	5·3	- 1·2	33	- 8	Oxford.
											0	47	59·4	+2·4	53·8	+1·1	—	—	—	3·4	—	20	—	Sheffield.
a Cheadle	69	30th	45	4th	63·0	51·0	56·6	- 0·3	102	0	0	42	•	•	•	•	1	0·05	- 0·55	•	•	•	•	Cheadle.
p Shrewsbury	77	1st	50	1st	70·3	52·1	60·6	+ 2·1	130	0	0	41	•	•	•	•	2	0·04	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	80	29th	49	29th	72·7	51·7	61·5	+ 2·1	137	0	0	42	•	•	•	•	2	0·14	- 0·36	•	•	•	•	Hereford.
a Cirencester ..	78	29th	50	29, 30, 5	70·7	52·1	60·8	+ 2·6	132	0	0	46	61·8	•	55·9	•	2	0·06	- 0·50	5·0	- 1·4	31	- 9	Cirencester.
a Bath	79	29, 30	50	29th	73·9	53·4	62·9	+ 3·3	146	0	•	•	63·5	+1·8	57·6	-0·4	2	0·16	- 0·40	6·7	—	41	—	Bath.
5. ENGLAND, S.E.											0	41	62·7	+3·6	58·6	+1·2	—	—	—	•	•	•	•	Canterbury.
p Kew	77	29th	53	30, 2, 4	67·7	54·7	60·8	+ 0·3	132	0	0	44	62·0	+1·9	56·6	+0·5	3	0·23	- 0·28	4·7	- 1·9	29	-12	Kew.
a Marlborough	80	29th	46	30, 1	71·4	49·4	59·6	+ 0·8	123	0	0	42	•	•	55·3	—	2	0·10	- 0·48	5·6	- 0·5	34	- 3	Marlborough.
a Margate	70	29th	49	3rd	64·1	52·1	57·7	- 3·0	110	0	0	43	59·1	-0·6	55·4	-1·2	3	0·59	+ 0·15	1·6	- 4·6	10	-29	Margate.
a Wisley, Surrey ..	78	29th	49	30, 1	70·6	51·6	60·4	- 0·9	129	0	0	37	63·6	+3·0	57·9	+0·6	2	0·19	—	6·0	—	38	—	Wisley.
											0	43	63·7	+1·1	58·1	+0·3	—	—	—	6·8	—	42	—	Worthing.
p Salisbury (Wilton) ..	83	29th	49	1st	74·6	52·1	62·6	+ 1·9	144	0	0	46	65·4	•	•	•	3	0·06	- 0·46	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	70	29th	48	30th	64·3	52·4	57·9	- 1·4	111	0	•	•	•	•	•	•	3	0·27	- 0·11	3·0	—	19	—	Littlestone.
p Hastings	77	29th	51	2nd	66·9	53·3	59·6	+ 0·1	123	0	0	47	62·3	•	58·5	•	3	0·24	- 0·22	*3·7*	- *4·0*	*23*	- *25*	*Hastings.*
p Southampton	82	29th	53	29th	71·7	55·2	62·9	+ 1·5	146	0	0	49	•	•	•	•	3	0·16	- 0·34	6·5	- 0·6	40	- 4	Southampton.
a Ventnor	74	29th	53	4th	67·9	55·1	61·1	+ 0·3	134	0	•	•	•	•	•	•	3	0·16	- 0·31	6·6	- 0·1	41	0	Ventnor.
											0	49	65·1	+2·2	59·3	+0·4	—	—	—	*6·8*	—	*42*	—	*Portsmouth.*
											•	•	61·9	•	58·3	•	—	—	—	5·3	- 2·4	33	15	Eastbourne.
LONDON.											•	•	62·8	•	59·1	•	—	—	—	*7·3*	—	*45*	—	*Bournemouth.*
a Westminster	*79*	*29th*	*53*	*1, 2, 5*	*69·9*	*54·7*	*61·8*	+ *0·7*	*139*	*0*	0	48	•	•	•	•	—	—	—	*5·8*	- *1·6*	*36*	*10*	*Brighton.*
a Greenwich	*80*	*29th*	*49*	*30, 1*	*71·1*	*52·1*	*60·9*	- *1·1*	*132*	*0*	0	49	•	•	•	•	*3*	*0·31*	- *0·19*	*4·2*	- *1·6*	*26*	- *10*	*Westminster.*
a Hampstead	*78*	*29th*	*49*	*2, 5*	*67·7*	*51·4*	*59·0*	—	*119*	*0*	0	38	•	•	•	•	*3*	*0·34*	- *0·16*	*3·7*	- *3·5*	*23*	- *21*	*Greenwich.*
a Camden Square ..	*80*	*29th*	*52*	*2, 4, 5*	*73·7*	*53·9*	*62·7*	—	*145*	*0*	0	42	•	•	•	•	*3*	*0·43*	—	*5·0*	—	*31*	—	*Hampstead.*
											0	51	•	•	•	•	*3*	*0·43*	—	*4·6*	—	*28*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																							
a Poltalloch .. S	64	30, 1	46	1st	61·6	50·4	55·6	- 1·6	95	0	•	•	•	•	•	•	1	0·02	- 0·81	•	•	•	•	
p Glasgow	74	3rd	50	5th	68·3	53·0	60·1	+ 3·6	127	0	0	43	•	•	•	•	1	0·18	- 0·48	8·2	+ 3·1	48	+18	Glasgow.
p Rothesay	73	30th	49	4th	67·7	51·4	59·0	+ 1·6	119	0	•	•	•	•	54·4	+0·4	1	0·04	- 0·77	•	•	•	•	
a Kilmarnock ..	?71	2nd	44	1st	?66·4	48·7	?58·9	- 0·3	?104	?0	•	•	•	•	•	•	1	0·03	—	*7·8*	—	*46*	—	*Kilmarnock.*
a Colmonell	67	30th	46	1st	63·7	50·7	56·8	0·0	104	0	0	43	•	•	•	•	1	0·07	- 0·59	•	•	•	•	
p Dumfries	74	1st	50	30th	68·0	52·9	59·9	+ 1·9	125	0	0	47	61·2	•	56·6	•	0	0·00	- 0·65	*7·1*	—	*42*	—	*Dumfries.*
p Cally, Gatehouse ..	78	1st	47	5th	70·6	51·3	60·3	+ 3·2	128	0	•	•	•	•	•	•	1	0·01	- 0·75	•	•	•	•	
b I. OF MAN																							
p Douglas	67	1, 2	50	30, 5	63·4	51·3	56·9	+ 0·7	104	0	0	47	•	•	•	•	1	0·13	- 0·51	10·1	+ 3·2	59	+18	Douglas.
											0	41	57·7	0·0	52·6	-0·6	—	—	—	*2·2*	—	*13*	—	*Burnley.*
											0	47	•	•	•	•	—	—	—	6·1	—	37	—	Hoylake.
7. a, ENGLAND, N.W. *p* Aspatria	73	2nd	50	1, 2	68·1	52·4	59·7	+ 3·6	124	0	0	46	60·4	•	52·8	•	2	0·03	- 0·67	7·2	—	43	—	Aspatria
p Newton Rigg	76	1st	47	5th	69·6	51·1	59·7	+ 3·7	124	0	0	46	60·9	+2·4	53·5	-0·1	2	0·05	- 0·54	4·9	- 1·4	29	- 9	Newton Rigg.
p Stonyhurst	71	1st	51	1, 5	65·0	53·3	58·7	+ 0·5	117	0	0	42	•	•	•	•	2	0·30	- 0·49	2·3	- 3·9	14	-23	Stonyhurst.
p Blackpool	66	2nd	50	1st	62·7	53·6	57·8	- 0·2	111	0	0	40	58·1	•	53·1	•	2	0·26	- 0·29	5·5	- 0·8	33	- 5	Blackpool.
p Manchester (Whit. Pk.)	74	1st	52	1, 5	65·9	54·9	60·0	+ 0·9	126	0	•	•	•	•	•	•	2	0·07	- 0·48	*1·6*	- *3·5*	*10*	- *21*	*Whit. Park.*
a Liverpool (Bidston) ..	66	1st	53	30, 5	61·4	54·7	57·8	- 1·4	111	0	•	•	•	•	•	•	2	0·22	- 0·35	*5·9*	—	*35*	—	*Liverpool.*
a Hawarden Bridge ..	71	1st	51	30th	66·0	54·0	59·6	+ 0·6	123	0	0	44	63·8	+1·7	58·8	+0·2	2	0·08	- 0·38	*5·3*	- *1·3*	*32*	- *8*	*Southport.*
											0	52	59·9	+1·6	56·8	+1·1	—	—	—	*1·5*	—	*9*	—	*Manchester (City)*
b, NORTH WALES. *p* Llandudno	70	1st	51	1st	64·9	52·9	58·5	- 0·1	116	0	•	•	•	•	•	•	2	0·29	- 0·20	7·5	+ 1·1	45	+ 7	Llandudno.
a Holyhead	62	2nd	52	30, 2, 5	60·7	52·9	56·5	- 0·7	102	0	•	•	•	•	•	•	1	0·13	- 0·41	*3·6*	—	*52*	—	*Holyhead.*
p Bettws-y-Coed ..	72	1st	44	5th	66·1	49·0	57·0	- 1·9	105	0	0	45	58·1	+1·9	53·4	+0·6	1	0·11	—	6·6	—	40	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	9·3	—	57	—	Aberdovey.

For notes see also opposite page.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway used for this, and future reports.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				8·9	—	54	—	Aberystwyth.
a Llangammarch Wells	76	1st	42	4th	69·9	49·1	58·8	+ 1·7	118	0	0	35	59·4	+3·3	53·2	+0·6	2	0·02	—	6·5	—	40	—	Llangammarch
a Pembroke	69	1st	51	5th	62·9	53·0	57·6	+ 0·4	109	0	•	•	•	•	•	•	1	0·02	− 0·50	8·3	+ 1·1	51	+ 7	Pembroke.[Wells
p Cardiff	76	29th	53	29, 1, 5	71·6	54·6	62·5	+ 2·6	144	0	0	45	63·9	+3·7	56·9	+0·1	3	0·15	− 0·50	*6·8*	—	*42*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	78	1st	54	5th	72·1	56·6	63·8	+ 3·4	153	0	0	53	•	•	•	•	1	0·11	− 0·49	*6·9*	—	*42*	—	*Clifton.*
a Shaftesbury	76	29th	51	5th	70·6	51·0	61·7	+ 3·3	138	0	•	•	62·7	•	56·8	•	0	0·00	− 0·56	•	•	•	•	Shaftesbury.
a Arlington	72	1st	43	1st	68·0	48·9	57·8	+ 0·9	111	0	•	•	•	•	•	•	2	0·07	− 0·75	•	•	•	•	Arlington.
a Newquay	*70*	*1st*	*49*	*1st*	*62·6*	*54·3*	*58·2*	*- 0·7*	*113*	*0*	•	•	62·4	•	•	•	*0*	*0·00*	*0·50*	7·7	+ 0·7	48	+ 4	Newquay.
a Cullompton	82	29th	45	29th	74·4	51·6	62·2	+ 3·0	141	0	0	41	66·1	•	•	•	3	0·08	− 0·50	6·4	+ 0·1	40	+ 1	Cullompton.
a Portland	67	3rd	56	29, 1, 2	64·9	57·3	60·8	+ 2·1	132	0	•	•	•	•	•	•	0	0·00	—	*6·1*	—	*38*	—	*Weymouth.*
p Plymouth	77	29th	52	29th	68·9	54·8	61·4	+ 1·6	136	0	0	42	65·4	+2·7	•	•	1	0·04	− 0·53	7·0	+ 0·2	44	+ 1	Plymouth.
p Falmouth	70	30th	53	29th	66·6	55·4	60·6	+ 1·6	130	0	•	•	•	•	•	•	1	0·01	− 0·59	9·7	+ 2·4	60	+15	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	61	30th	49	5th	56·9	50·3	53·4	- 2·1	80	0	•	•	•	•	•	•	5	0·08	− 0·50	•	•	•	•	
a Blacksod Point ..	68	30th	48	30th	62·1	50·9	56·1	- 0·5	99	0	•	•	•	•	•	•	3	0·14	− 0·50	•	•	•	•	
p Markree Castle ..	68	30th	43	29th	63·3	49·0	55·7	- 0·1	96	0	0	38	60·0	•	54·1	•	2	0·11	− 0·61	6·3	+ 1·5	37	+ 9	Markree Castle.
a Birr Castle ..	75	30, 1	47	29th	69·4	51·1	59·6	+ 2·0	123	0	•	•	•	•	•	•	1	0·02	− 0·58	*6·2*	+ *1·2*	*37*	+ 7	*Birr Castle.*
b, East .. *p* Armagh	73	30th	47	30, 1	68·0	49·1	57·9	+ 1·2	111	0	0	39	61·1	+1·9	55·0	−0·3	1	0·01	− 0·62	8·2	+ 3·0	49	+18	Armagh.
a Donaghadee	63	2nd	49	30th	59·7	51·9	55·5	− 1·0	95	0	•	•	•	•	•	•	2	0·15	− 0·44	•	•	•	•	
10. IRELAND, S.											0	40	61·8	+2·3	55·8	0·0	—	—	—	•	•	•	•	Trinity Coll.
a, East .. *p* Dublin, City	72	29, 2	52	1, 5	68·3	53·9	60·6	+ 0·9	130	0	0	34	•	•	•	•	—	—	—	7·6	+ 1·5	46	+ 9	Phœnix Park.
a Kilkenny	75	1st	46	29th	69·6	51·7	60·0	+ 1·1	126	0	0	48	•	•	•	•	0	0·01	− 0·49	•	•	•	•	Dublin City.
a Waterford	77	1st	49	30, 1	70·6	52·1	60·7	+ 2·0	131	0	•	•	•	•	•	•	1	0·02	− 0·56	•	•	•	•	
																	0	0·00	− 0·70	•	•	•	•	
a Birr Castle	75	30, 1	47	29th	69·4	51·1	59·6	+ 2·0	123	0	•	•	•	•	•	•	1	0·02	− 0·58	6·2	+ 1·2	37	+ 7	Birr Castle.
a Foynes	74	2nd	49	29th	67·3	51·3	58·7	+ 0·6	117	0	•	•	•	•	•	•	1	0·02	− 0·58	•	•	•	•	
b, West .. *a* Cahir	79	1st	44	29th	71·1	50·3	60·0	+ 1·6	126	0	•	•	•	•	•	•	0	0·00	—	•	•	•	•	
a Killarney	79	1st	45	29th	70·0	50·7	59·7	+ 2·0	124	0	•	•	•	•	•	•	3	0·10	− 0·59	•	•	•	•	
a Valencia	75	1st	45	29th	65·4	51·6	58·0	+ 0·4	112	0	•	•	•	•	•	•	1	0·01	− 0·80	7·6	+ 2·0	47	+12	Valencia.
a Roche's Point	70	2nd	50	29th	64·1	52·9	58·1	0·0	113	0	•	•	•	•	•	•	1	0·01	− 0·63	? 8·1	—	? 50	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	68	1st	52	29th	63·7	54·4	58·7	- 1·0	117	0	•	•	•	•	•	•	1	0·01	− 0·46	6·9	− 0·8	43	− 5	Scilly.
a Jersey, St. Aubins ..	75	30th	51	2, 5	69·1	54·4	61·2	+ 0·5	134	0	•	•	•	•	•	•	2	0·06	− 0·44	8·0	0·0	50	0	St. Heliers.
a Guernsey (Villa Carey	72	30th	51	2nd	68·9	54·9	61·4	+ 1·2	136	0	0	48	63·3	+1·6	58·6	−0·1	2	0·06	− 0·43	8·6	+ 0·4	54	+ 3	Guernsey.*

Additional Sunshine Means:—*Bognor, 7·3 hrs. 45 °/₀; Ramsgate, 2·4 hrs. 15 °/₀; Rhyl, 8·4 hrs. 51 °/₀; Salcombe, 7·3 hrs. 45 °/₀; Tenby, 9·7 hrs. (+2·4) 59 °/₀ (+15); Torquay, 7·7 hrs. (+0·2) 48 °/₀ (+1).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, July 5th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	52	51	51·2	+0·4	SCOTLAND, W. ..	Lamlash	60	55	57·3	+2·8
	Kirkwall	56	53	54·5	+1·3		Ballantrae	56	53	54·6	+0·3
	Wick	51	50	50·3	-1·8	ENGLAND, N.W. ..	Port Erin	58	53	54·4	+0·5
SCOTLAND, E. ..	Cromarty	56	53	54·7	+0·2		Newquay	59	58	58·3	-0·2
	Pennan Bay	57	55	56·0	+2·2	ENGLAND, S.W. ..	Scilly	63	57	59·6	—
	Aberdeen, Cove Bay	53	51	52·4	-0·1		Plymouth‡	59	58	58·9	+0·8
ENGLAND, N.E. ..	Burnmouth, Berwick	53	49	50·9	-1·1		Salcombe	61	58	60·0	+4·1
	Scarborough	57	51	55·5	+1·7	IRELAND, N.W. ..	Sheephaven	59	55	57·2	+0·1
ENGLAND, E. ..	Shipwash Lightship	61	58	59·4	+0·9		Teelin	60	56	57·5	-0·7
ENGLAND, S.E. ..	Eastbourne‡	62	60	61·7	+1·1	IRELAND, S.W. ..	Cleggan	60	56	57·6	+1·4
						IRELAND, E.	Seafield	71	59	63·8	+4·3
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-SEVENTH WEEK—June 29th to July 5th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	75	47	62·3	50·5	56·0	+ 1·5	98	+ 10	0	0	2	− 2	0·24	−0·54	3·7	+1·0	38	+ 6
Eastern.																		
1. SCOTLAND, EAST ...	80	45	66·2	50·4	57·8	+ 1·5	111	+ 11	0	0	2	− 2	0·27	−0·36	4·1	−1·6	24	− 9
2. ENGLAND, N.E.	73	45	63·3	51·3	56·9	− 1·7	104	− 12	0	0	3	0	0·20	−0·26	3·2	−3·5	19	−21
3. ENGLAND, EAST ...	77	44	62·9	51·1	56·5	− 4·0	102	− 27	0	0	3	0	0·25	−0·17	2·6	−4·8	16	−29
4. MIDLAND COUNTIES ...	80	45	68·5	52·3	59·8	− 0·1	125	− 1	0	0	2	− 1	0·12	−0·35	4·1	−2·6	25	−16
5. ENGLAND, S.E.	83	46	68·8	52·9	60·3	− 0·7	128	− 5	0	0	3	+ 1	0·22	−0·18	5·1	−2·5	31	−15
Western.																		
6. SCOTLAND, WEST ...	74	44	66·2	51·2	58·2	+ 1·1	113	+ 8	0	0	1	− 3	0·06	−0·73	9·2	+3·2	54	+19
7. ENGLAND, N.W.	76	44	65·0	52·9	58·5	− 0·2	116	− 1	0	0	2	− 1	0·15	−0·43	6·2	−2·2	37	− 1
8. ENGLAND, S.W.	82	42	69·0	53·5	60·7	+ 1·3	131	+ 9	0	0	1	− 2	0·05	−0·48	7·8	+0·8	48	+ 5
9. IRELAND, NORTH ...	75	47	63·2	50·4	56·4	− 1·0	101	− 7	0	0	2	− 2	0·09	−0·54	7·3	+2·5	43	+14
10. IRELAND, SOUTH ...	79	44	68·4	51·7	59·5	+ 0·7	123	+ 5	0	0	1	− 3	0·02	−0·58	7·4	+1·9	45	+12
11. ENGLISH CHANNEL ...	75	51	67·2	54·6	60·4	− 0·2	129	− 2	0	0	2	− 1	0·04	−0·41	7·8	−0·7	49	− 4

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 5 Weeks, June 1st to July 5th, 1913.

0. SCOTLAND, NORTH ...	76	33	*	*	*	*	398	+ 4	0	− 2	19	0	4·46	+ 1·08	4·8	−0·4	28	− 1
Eastern.																		
1. SCOTLAND, EAST ...	80	35	*	*	*	*	444	+ 1	0	− 1	17	+ 1	2·44	− 0·23	5·6	−0·3	32	− 2
2. ENGLAND, N.E.	82	37	*	*	*	*	494	+ 4	0	0	16	+ 2	1·34	− 0·83	5·9	−0·5	35	− 3
3 ENGLAND, EAST ...	84	38	*	*	*	*	539	− 16	0	0	12	− 2	1·15	− 1·13	6·0	−1·0	36	− 6
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	537	− 13	0	0	12	− 2	1·08	− 1·29	5·8	−0·5	35	− 3
5. ENGLAND, S.E.	84	38	*	*	*	*	557	− 27	0	0	9	− 4	0·83	− 1·31	6·4	−0·7	39	− 5
Western.																		
6. SCOTLAND, WEST ...	77	40	*	*	*	*	464	− 18	0	0	18	+ 1	2·99	− 0·46	5·9	−0·4	34	− 2
7. ENGLAND, N.W.	78	36	*	*	*	*	496	− 25	0	0	16	0	2·55	− 0·11	5·6	−0·9	34	− 5
8. ENGLAND, S.W.	83	34	*	*	*	*	508	− 40	0	0	13	− 2	1·59	− 1·03	6·5	−0·4	40	− 3
9. IRELAND, NORTH ...	75	35	*	*	*	*	420	− 64	0	0	19	0	3·46	+ 0·37	4·6	−0·8	27	− 5
10. IRELAND, SOUTH ...	79	38	*	*	*	*	472	− 64	0	0	18	+ 1	2·95	+ 0·01	5·7	−0·3	35	− 2
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	528	− 51	0	0	14	− 2	0·94	− 1·17	7·3	−0·9	46	− 6

THE YEAR.—Aggregates, &c., for the Period of 27 Weeks, December 29th, 1912, to July 5th, 1913.

0. SCOTLAND, NORTH ...	76	21	*	*	*	*	803	− 39	424	−133	125	+ 2	26·15	+1·93	3·0	−0·5	23	− 5
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	889	− 85	601	− 19	109	+ 9	15·67	+1·74	3·6	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	1,079	+ 37	406	− 69	102	+11	12·63	+1·98	3·6	−0·8	29	− 6
3. ENGLAND, EAST ...	84	20	*	*	*	*	1,319	+ 73	303	−218	93	+ 4	10·51	−0·09	4·0	−0·6	32	− 5
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	1,247	− 22	392	−141	99	+11	14·87	+2·79	3·5	−0·7	28	− 5
5. ENGLAND, S.E.	84	22	*	*	*	*	1,364	+ 13	221	−160	91	+ 7	13·11	+1·36	4·3	−0·4	34	− 3
Western.																		
6. SCOTLAND, WEST ...	77	17	*	*	*	*	1,031	− 43	323	−102	118	+12	23·94	+2·67	3·4	−0·8	27	− 6
7. ENGLAND, N.W.	78	10	*	*	*	*	1,118	− 27	298	− 88	112	+15	18·84	+3·89	3·6	−0·6	28	− 5
8. ENGLAND, S.W.	83	19	*	*	*	*	1,259	− 54	221	− 80	113	+18	22·07	+5·37	4·0	−0·7	31	− 5
9. IRELAND, NORTH ...	75	21	*	*	*	*	1,052	− 92	297	− 48	129	+15	21·63	+4·58	3·4	−0·6	27	− 4
10. IRELAND, SOUTH ...	79	22	*	*	*	*	1,245	−110	243	− 16	130	+27	25·36	+6·90	3·8	−0·6	30	− 5
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	1,486	− 12	38	− 71	109	+ 6	15·77	+1·74	4·5	−1·1	36	− 8

M.O., July 9, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH: or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 28. TWENTY-EIGHTH WEEK, SUNDAY, JULY 6TH, TO SATURDAY, JULY 12TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather was generally of a rather changeable character, but over a large portion of Great Britain the latter part of the week was mainly fair and dry. Thunder was heard on Sunday in some parts of western and central Scotland, and thunderstorms occurred on Monday at a few of the south coast stations, and very generally on Thursday in the east and south-east of England.

Temperature was considerably below the average in all districts excepting Scotland North, where the deficit was slight. In the eastern and central parts of England the deficit amounted to between four and a half and five degrees. The highest readings, which occurred mainly on the 11th or 12th, ranged from 78° in England East, and 75° in the Midland Counties to 66° in England North-West, and to 63° in Ireland North. The lowest readings were observed on the 8th or 9th, when the thermometer fell below 40° in most of the western and northern districts and reached 34° in Scotland East. In England South-East it did not fall below 42°, and in the English Channel it only touched 51°. At a depth of 1 foot the temperature of the soil was in most places below the average, but at a depth of 4 feet the temperature in many English districts was slightly above it.

Mean Temperature of the Sea was lower than in the corresponding week of last year, and was below the average except on the north and east coasts of Scotland. The mean values for the week ranged from 61°·9 at Eastbourne, and 60°·5 at Seafield to 52° and less on several parts of the north and north-east coasts, and to 50° at Burnmouth.

Rainfall. Over the country generally the total rainfall was considerably less than the average. In the Midland Counties, however, it was nearly equal to the normal, while in England South-East and North-West it was in excess. During a thunderstorm on the 6th an inch and a quarter of rain fell at Westbourne, and during the thunderstorms on the 10th an inch fell at Worthing, and an inch and a half at Brighton. At Lewisham on the 10th the fall of rain and hail in the space of 27 minutes amounted to 0·72 in.

Bright Sunshine was very deficient in all districts excepting Scotland North and East. In the Midland Counties the mean daily duration was less than 2½ hours, and amounted to only 15 per cent. of the possible. In Scotland North the daily duration was 5·3 hours, and in Scotland East 5·5 hours, the proportion of the possible amount in those districts being respectively 30 and 32 per cent.

Barometer and Wind. At the commencement of the week a large anticyclone covered the eastern and central parts of the North Atlantic, while an area of low pressure lay over Denmark and the Baltic, the prevailing winds being light to moderate from the Northward or North-Westward. On the 8th and 9th, when the anticyclone receded temporarily Southward, a large depression travelled north-eastwards across Iceland, while a "V"-shaped secondary disturbance passed from west to east across the United Kingdom, the progress of the latter system being accompanied at first by a backing of the wind to the Southward, and afterwards by a veering to West or North-West. Towards the close of the week a new area of low pressure appeared off our north and north-west coasts, and the wind, which was everywhere light in force, again backed to the Westward or South-Westward.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 111.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Deficient	Deficient	Very deficient	Very deficient	Very deficient	Very deficient
	Rainfall ...	Light	Light	Light	Moderate	Moderate	Moderate	Light	Moderate	Light	Light	Light	Moderate
	Sunshine ...	Abundant	Moderate	Scanty	Scanty	Very scanty	Very scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 6 weeks from June 1st, 1913.	Warmth ...	2 * 2	0 * 2	2 * 3	2 * 2	1 * 3	1 * 3	1 * 3	1 * 3	1 * 4	0 * 4	0 * 4	0 * 3
	Rainfall ...	2 * 3	1 * 3	0 * 4	0 * 1	0 * 3	0 * 3	2 * 2	2 * 2	1 * 4	1 * 2	2 * 2	0 * 2
	Sunshine ...	2 * 2	2 * 2	2 * 3	1 * 3	1 * 3	1 * 4	1 * 3	1 * 3	0 * 2	1 * 4	1 * 2	1 * 4

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(30888—24.) Wt. 196—786. 450. 7/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands .. *p* Baltasound .. S	57	*10, 11, 12*	45	*8th*	*55·6*	*47·4*	*51·2*	—	*64*	*0*	•	•	54·8	•	•	•	2	*0·16*	—	*4·3*	—	*24*	—	*Baltasound.*
a Lerwick	59	12th	44	9th	55·7	47·6	51·4	- 0·3	66	0	•	•	•	•	•	•	1	0·01	—	7·5	+ 2·9	42	+17	Deerness.
a Stornoway	62	12th	40	8th	58·4	48·1	52·9	- 0·8	76	0	•	•	•	•	•	•	3	0·16	- 0·51	5·3	+ 0·2	30	+ 1	Stornoway.
a Castlebay, Barra Isd.‡ ..	*57*	*6, 10, 12*	*44*	*8th*	*56·6*	*49·1*	*52·3*	*- 1·4*	*74*	*0*	•	•	•	•	•	•	*6*	*0·56*	—	*4·3*	—	*24*	—	*Castlebay.*
b, Mainland. *a* Wick	58	12th	44	7th	54·9	48·3	51·4	- 2·7	66	0	•	•	•	•	•	•	4	0·30	- 0·27	•	•	•	•	•
p Strathpeffer ..	69	11, 12	41	8th	64·4	47·4	55·3	- 0·4	93	0	•	•	•	•	•	•	2	0·03	- 0·59	5·0	+ 0·6	29	+ 3	Strathpeffer.
p Glencarron ..	62	12th	38	8th	58·6	44·9	51·3	- 2·2	65	0	•	•	•	•	•	•	3	0·47	- 0·72	•	•	•	•	•
p Fort Augustus..	67	11th	36	8th	61·6	47·7	54·2	- 1·3	85	0	•	•	•	•	•	•	2	0·48	- 0·15	3·3	- 0·3	19	- 2	Fort Augustus.
p Fort William .. Bdstn.	67	12th	39	8th	62·4	47·6	54·5	- 1·7	88	0	•	•	•	•	•	•	3	0·19	- 0·88	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle.. Bdstn.	70	9th	42	8th	60·9	46·3	53·1	- 3·4	78	0	1	30	56·8	-1·1	53·7	+0·1	—	—	—	5·9	—	35	—	Crathes S.
a Nairn	65	12th	40	8, 9	61·3	45·6	52·9	- 3·3	76	0	•	•	•	•	•	•	2	0·16	- 0·54	*5·3*	—	*31*	—	*Gordon Castle.*
a Aberdeen ..	65	12th	40	9th	60·7	46·9	53·3	- 2·8	79	0	•	•	•	•	52·3	0·0	3	0·42	- 0·14	5·1	—	30	—	Nairn.
a Balmoral ..	65	11, 12	34	9th	62·1	45·0	53·0	- 1·0	77	0	1	30	•	•	•	•	3	0·40	- 0·20	6·4	+ 0·9	37	+ 5	Aberdeen.
p Crieff	72	11th	41	7th	65·0	46·7	55·2	- 2·3	92	0	•	•	•	•	•	•	3	0·42	- 0·18	•	•	•	•	Balmoral.
a Leith	67	11th	43	9th	62·4	49·6	55·6	- 2·3	95	0	•	•	•	•	•	•	1	0·14	- 0·54	5·3	—	31	—	Balruddery.
p West Linton .. Bdstn.	66	11th	38	9th	60·7	44·6	52·1	- 3·2	71	0	0	34	•	•	•	•	2	0·28	- 0·29	•	•	•	•	•
p Marchmont .. Bdstn.	66	12th	41	9th	61·6	46·9	53·7	- 2·5	82	0	0	36	59·3	+1·3	•	•	5	0·25	- 0·45	4·6	- 1·1	27	- 7	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	68	11th	39	9th	62·9	45·4	53·5	- 3·5	81	0	0	35	55·9	-2·2	53·7	-0·5	3	0·13	- 0·47	5·3	—	31	—	Cockle Park.
a Shields	65	12th	46	8th	60·4	48·6	54·1	- 3·1	85	0	•	•	•	•	•	•	5	0·24	- 0·29	•	•	•	•	•
p Durham	67	12th	39	9th	60·7	44·7	52·1	- 6·2	71	0	0	36	•	•	•	•	3	0·48	- 0·15	3·3	- 2·2	20	-13	Durham.
a, North .. *p* Rounton	69	12th	39	10th	62·4	45·1	53·2	- 4·1	78	0	0	35	57·2	•	•	•	4	0·39	- 0·17	•	•	•	•	Rounton.
a West Witton	*65*	*12th*	*43*	*8th*	*60·1*	*47·0*	*53·1*	—	*78*	*0*	0	38	57·0	•	53·1	•	*3*	*0·87*	—	•	•	•	•	*West Witton.*
p Scarborough	68	12th	47	8, 9	59·7	49·4	54·2	- 4·3	85	0	•	•	•	•	57·2†	•	3	0·15	- 0·37	4·9	—	30	—	Scarborough.
p York	73	12th	45	8th	63·4	48·3	55·3	- 4·3	93	0	•	•	57·9	-0·5	55·0	+0·3	1	0·25	- 0·30	4·4	- 1·4	27	- 8	York.
											•	40	56·1	-3·0	54·0	+0·2	—	—	—	*2·5*	—	*15*	—	*Hull.*
a Spurn Head	69	12th	47	11th	61·6	49·1	54·9	- 4·0	90	0	•	•	•	•	•	•	1	0·01	- 0·36	*6·2*	—	*37*	—	*Spurn Head.*
b, South .. *a* Lincoln	71	12th	44	8th	64·7	49·0	56·3	- 4·2	100	0	•	•	57·8	-1·7	55·8	+0·7	0	0·00	- 0·50	•	•	•	•	Lincoln.
a Fulbeck	71	11, 12	40	8th	65·3	46·4	55·2	- 5·0	92	0	0	36	58·5	-4·8	55·9	-0·6	4	0·32	- 0·18	3·6	—	22	—	Rauceby.
											•	•	•	•	•	•	—	—	—	6·4	—	39	—	Skegness.
3. ENGLAND, E.											0	39	59·2	-2·8	56·9	-0·7	—	—	—	*7·7*	—	*47*	—	*Lowestoft.*
p Cromer	74	12th	48	8, 10	63·7	49·4	56·1	- 3·4	99	0	•	•	•	•	•	•	2	0·07	—	6·7	—	41	—	Cromer.
p Little Massingham ..											•	•	•	•	•	•				•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth	67	12th	46	8, 11	62·4	48·1	54·8	- 4·7	90	0	•	•	59·1	-4·7	57·6	-2·2	1	0·02	- 0·51	7·8	—	48	—	Yarmouth.
a Norwich	73	10, 12	43	7th	66·4	46·4	55·7	- 4·2	96	0	0	38	57·9	•	•	•	2	0·03	—	*6·0*	—	*37*	—	*Norwich.*
p Gelderston	73	12th	41	10th	64·7	45·4	54·4	- 5·3	87	0	•	•	•	•	•	•	5	0·19	- 0·30	5·9	- 1·0	36	- 6	Gelderston.
p Cambridge	72	12th	42	7, 9	65·0	46·6	55·2	- 6·0	92	0	0	38	59·2	-2·6	57·6	-0·4	4	0·27	- 0·24	3·1	- 3·7	19	-23	Cambridge.
a Felixstowe	*67*	*12th*	*43*	*8th*	*63·3*	*49·6*	*56·0*	*- 4·9*	*98*	*0*	•	•	•	•	•	•	*4*	*0·43*	—	*6·6*	—	*41*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	67	12th	42	8th	63·1	49·1	55·6	- 5·1	95	0	0	33	58·7	-1·3	57·7	-0·6	2	0·14	—	5·1	—	31	—	Clacton.
a Rothamsted	70	12th	41	8th	64·1	47·4	55·2	- 4·6	92	0	•	•	•	•	•	•	3	0·20	- 0·34	2·8	- 3·9	17	-24	Rothamsted.
a Shoeburyness	*70*	*12th*	*43*	*8th*	*65·0*	*50·0*	*57·0*	*- 5·6*	*105*	*0*	0	41	61·0	-2·6	•	•	*4*	*0·91*	*+ 0·51*	*4·5*	—	*28*	—	*Southend.*
p Tottenham	78	12th	47	8th	66·4	51·1	58·2	- 3·4	113	0	0	44	•	•	60·0	+0·9	2	0·63	—	3·4	—	21	—	Tottenham.
4. MIDLAND COUNTIES.											0	40	57·6	-2·9	54·0	0·0	—	—	—	*2·3*	—	*14*	—	*Huddersfield.*
a Harrogate	67	12th	41	8th	60·1	46·1	52·6	- 4·8	74	0	0	35	55·9	-0·2	55·1	+0·9	1	0·46	- 0·08	2·8	—	17	—	Harrogate.
a Bawtry	73	12th	44	8, 9	64·6	47·4	55·4	- 4·4	94	0	0	36	57·6	•	55·7	•	3	0·27	- 0·23	3·1	- 2·3	19	-14	Worksop.
p Buxton	*66*	*12th*	*40*	*8th*	*59·3*	*46·0*	*52·2*	*- 4·6*	*71*	*0*	0	35	55·6	-3·2	52·7	+0·2	*4*	*0·97*	*+ 0·15*	*3·0*	—	*18*	—	*Buxton.*
a, East .. *a* Nottingham	70	12th	42	9th	62·6	48·1	54·9	- 5·5	90	0	0	39	57·6	-2·3	56·6	+0·5	3	0·48	- 0·02	2·2	—	13	—	Nottingham.
p Birmingham, Edgbsn.	66	11, 12	46	8, 9	61·0	49·3	54·7	- 4·7	89	0	0	31	53·1	-2·2	51·6	+0·2	3	1·22	+ 0·72	1·8	—	11	—	Birmingham.
a Raunds	73	12th	41	8th	65·7	47·7	56·5	- 4·2	102	0	0	36	58·6	•	56·0	•	3	0·35	—	•	•	•	•	Raunds.
p Oxford	71	12th	46	8th	65·0	50·3	57·1	- 3·7	106	0	0	39	•	•	•	•	4	0·19	- 0·36	2·4	- 4·2	15	-26	Oxford.
											0	39	56·5	-1·3	54·2	+0·9	—	—	—	3·2	—	20	—	Sheffield.
a Cheadle	67	12th	44	7, 8	61·3	49·1	54·8	- 2·9	90	0	0	39	•	•	•	•	2	0·57	- 0·04	•	•	•	•	Cheadle.
p Shrewsbury	68	11th	46	8th	62·4	50·1	55·8	- 3·4	97	0	0	40	•	•	•	•	4	0·73	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	71	11th	42	8th	62·9	48·7	55·3	- 4·8	93	0	0	35	•	•	•	•	4	0·19	- 0·31	•	•	•	•	Hereford.
a Cirencester	75	12th	44	6, 8	65·3	47·9	56·0	- 3·1	98	0	0	41	59·1	•	56·7	•	3	0·65	+ 0·08	1·4	- 5·0	9	-31	Cirencester.
a Bath	69	12th	48	8th	65·3	51·9	58·1	- 2·3	113	0	•	•	61·1	-1·7	58·5	-0·5	2	0·09	- 0·48	2·2	—	14	—	Bath.
5. ENGLAND, S.E.											0	39	61·9	+1·7	58·7	+0·8	—	—	—	•	•	•	•	Canterbury.
p Kew	72	12th	46	8th	65·1	51·3	57·7	- 3·6	110	0	0	36	60·1	-1·1	57·0	+0·4	4	0·29	- 0·23	3·0	- 3·7	19	-23	Kew.
a Marlborough	67	12th	42	11th	62·3	46·6	53·9	- 5·4	83	0	0	37	•	•	56·2	—	4	1·26	+ 0·69	1·8	- 4·3	11	-27	Marlborough.
a Margate	73	12th	48	9th	66·4	52·6	59·0	- 2·2	119	0	0	40	59·3	-1·4	55·9	-1·4	1	0·04	- 0·40	7·1	+ 0·7	44	+ 4	Margate.
a Wisley, Surrey ..	74	12th	43	8th	65·3	48·9	56·5	- 5·6	102	0	0	32	60·8	-0·9	57·7	-0·3	3	0·16	—	3·2	—	20	—	Wisley.
											0	44	61·3	-2·2	58·8	+0·2	—	—	—	3·5	—	22	—	Worthing.
p Salisbury (Wilton) ..	73	12th	46	9th	65·3	48·7	56·4	- 5·1	101	0	0	44	62·1	•	•	•	5	0·29	- 0·23	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	66	11th	42	8th	63·3	51·0	56·7	- 3·8	103	0	•	•	•	•	•	•	3	0·34	- 0·04	6·2	—	39	—	Littlestone.
p Hastings..	66	11th	47	8th	63·3	51·4	56·9	- 3·5	104	0	0	42	61·0	•	58·8	•	4	0·73	+ 0·25	*5·4*	*- 2·4*	*34*	*-15*	*Hastings.*
p Southampton	70	12th	48	9th	63·4	50·3	56·4	- 5·8	101	0	0	45	•	•	•	•	4	0·61	+ 0·09	3·3	- 3·9	21	-24	Southampton.
a Ventnor	68	8th	49	7, 8	63·4	51·3	56·9	- 4·5	104	0	•	•	•	•	•	•	5	0·70	+ 0·22	3·7	- 3·2	23	-20	Ventnor.
											0	45	60·5	-3·5	59·4	-0·2	—	—	—	*3·8*	—	*24*	—	*Portsmouth.*
											•	•	60·8	•	59·1	•	—	—	—	5·7	- 2·0	36	-13	Eastbourne.
LONDON.											•	•	60·2	•	59·3	•	—	—	—	*3·3*	—	*21*	—	*Bournemouth.*
											0	43	•	•	59·9	•	—	—	—	*4·5*	—	*28*	—	*Brighton.*
a Westminster	*72*	*12th*	*46*	*8th*	*65·9*	*52·1*	*58·5*	*- 3·3*	*116*	*0*	0	42	•	•	•	•	*3*	*0·21*	*- 0·29*	*2·5*	*- 3·3*	*16*	*-21*	*Westminster.*
a Greenwich	*76*	*12th*	*46*	*8th*	*67·4*	*50·4*	*58·3*	*- 4·4*	*114*	*0*	0	34	•	•	•	•	*3*	*1·20*	*+ 0·68*	*3·0*	*- 4·4*	*19*	*-27*	*Greenwich.*
a Hampstead	*70*	*12th*	*44*	*8th*	*64·0*	*49·9*	*56·5*	—	*102*	*0*	0	33	•	•	•	•	*3*	*0·74*	—	*2·9*	—	*18*	—	*Hampstead.*
a Camden Square ..	77	*12th*	*44*	*8th*	*68·6*	*50·6*	*59·0*	—	*119*	*0*	0	43	•	•	•	•	*4*	*0·74*	—	*3·1*	—	*19*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. Bdstn.	63	6, 8, 11	38	8th	61·0	46·1	53·0	- 4·4	77	0	•	•	•	•	•	•	3	0·26	- 0·61	•	•	•	•	•
p Glasgow .. Bdstn.	65	12th	44	7th	61·1	49·4	54·8	- 2·4	90	0	0	32	•	•	•	•	3	0·41	- 0·28	4·1	- 0·8	24	- 5	Glasgow.
p Rothesay .. Bdstn.	67	11th	42	7th	63·1	49·3	55·7	- 1·7	96	0	•	•	•	•	55·1	+0·4	5	0·54	- 0·33	•	•	•	•	•
a Kilmarnock ..	66	12th	39	8th	62·3	46·9	54·1	- 3·4	85	0	•	•	•	•	•	•	4	0·70	—	*4·4*	—	*26*	—	*Kilmarnock.*
a Colmonell ..	64	12th	43	8th	60·6	49·1	54·5	- 2·6	88	0	0	40	•	•	•	•	4	0·38	- 0·33	•	•	•	•	•
p Dumfries ..	65	11th	42	8th	61·7	48·0	54·4	- 4·1	87	0	0	34	59·3	•	57·6	•	3	0·33	- 0·37	*3·5*	—	*21*	—	*Dumfries.*
p Cally, Gatehouse Bdstn.	65	9, 12	40	8th	62·9	46·6	54·2	- 3·2	85	0	•	•	•	•	•	•	5	0·41	- 0·39	•	•	•	•	•
b I. OF MAN.																								
p Douglas	60	6, 8, 12	47	7th	58·1	49·5	53·5	- 3·2	81	0	0	45	•	•	•	•	5	0·74	+ 0·07	4·5	- 2·1	27	-13	Douglas.
											0	33	57·2	-1·5	53·5	-0·4	—	—	—	*1·6*	—	*10*	—	*Burnley.*
											0	43	•	•	•	•	—	—	—	5·2	—	31	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	63	11, 12	41	8th	61·7	47·9	54·3	- 2·3	86	0	0	35	58·3	•	53·8	•	5	0·97	+ 0·19	4·0	—	24	—	Aspatria.
p Newton Rigg	66	11th	40	8th	62·1	46·4	53·7	- 2·8	82	0	0	36	59·6	+0·2	54·3	-0·1	5	0·78	+ 0·14	3·8	- 2·2	23	-13	Newton Rigg.
p Stonyhurst	65	12th	43	8th	60·6	49·1	54·5	- 3·9	88	0	0	33	•	•	•	•	4	0·35	- 0·48	2·1	- 3·9	13	-24	Stonyhurst.
p Blackpool	63	12th	43	8th	60·6	50·4	55·1	- 3·6	92	0	0	46	57·7	•	53·8	•	3	0·67	+ 0·07	4·2	- 2·0	25	12	Blackpool.
p Manchester (Whit. Pk.)	66	12th	44	9th	61·0	50·0	55·1	- 4·5	92	0	•	•	•	•	•	•	3	0·87	+ 0·30	*1·9*	*- 3·2*	*11*	*-20*	*Whit. Park.*
a Liverpool (Bidston) ..	62	12th	45	7th	60·0	50·3	54·8	- 5·1	90	0	•	•	•	•	•	•	4	0·86	+ 0·28	*5·0*	—	*31*	—	*Liverpool.*
a Hawarden Bridge ..	65	12th	48	7, 8	60·9	51·3	55·8	- 3·8	97	0	0	37	61·4	-0·9	59·3	-0·2	6	1·95	+ 1·48	*4·4*	—	*27*	—	*Southport.*
											0	39	58·8	-0·6	57·1	+0·7	—	—	—	*2·2*	—	*13*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	64	6, 11, 12	48	7th	62·4	51·6	56·6	- 2·7	102	0	•	•	•	•	•	•	6	0·65	+ 0·15	4·2	- 2·0	26	-12	Llandudno.
a Holyhead	60	6, 9, 12	50	9th	59·4	51·7	55·3	- 2·4	93	0	•	•	•	•	•	•	4	0·33	- 0·22	*4·7*	—	*29*	—	*Holyhead.*
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	3·2	—	20	—	Aberdovey.

For notes see also opposite page.

† At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway used for this, and future reports.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·3	—	21	—	Aberystwyth.
a Llangammarch Wells	65	11th	37	8th	60·4	48·1	53·8	- 3·9	83	0	0	32	57·4	+0·3	54·0	+1·3	4	0·43	—	2·9	—	18	—	Llangammarch
a Pembroke	61	9, 11	47	8th	59·4	51·1	55·0	- 2·2	91	0	•	•	•	•	•	•	3	0·15	- 0·39	4·0	- 2·9	25	-18	Pembroke.[Wells
p Cardiff	67	11th	48	9th	62·9	51·3	56·7	- 3·8	103	0	0	44	60·1	-0·4	52·9	-4·6	1	0·28	- 0·40	2·7	—	*17*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	69	11th	48	8th	64·3	53·3	58·4	- 2·8	115	0	0	45	•	•	•	•	5	0·09	- 0·53	*2·9*	—	*18*	—	*Clifton.*
a Shaftesbury	68	12th	45	9th	62·4	48·1	54·8	- 4·5	90	0	•	•	58·8	•	57·5	•	5	0·42	- 0·15	•	•	•	•	Shaftesbury.
a Arlington	64	11th	43	8th	60·0	49·0	54·1	- 3·4	85	0	•	•	•	•	•	•	2	0·09	- 0·77	•	•	•	•	Arlington.
a Newquay	*62*	*11, 12*	*51*	*7, 8, 9*	*59·4*	*53·0*	*56·0*	*- 3·4*	*98*	*0*	•	•	60·0	•	•	•	4	0·29	- 0·22	5·1	- 1·8	32	-11	Newquay.
a Cullompton	71	11th	46	8th	65·4	49·6	57·0	- 2·8	105	0	0	41	62·4	•	•	•	4	0·46	- 0·14	3·4	- 2·8	21	-18	Cullompton.
a Portland	64	10, 11	52	9th	61·6	54·3	57·7	- 2·4	110	0	•	•	•	•	•	•	2	0·17	—	*3·0*	—	*19*	—	*Weymouth.*
p Plymouth	69	11th	50	7th	64·0	52·8	58·0	- 2·5	112	0	0	44	62·3	-1·7	•	•	1	0·20	- 0·41	4·5	- 2·3	28	-15	Plymouth.
p Falmouth	67	11th	49	8th	62·9	53·3	57·8	- 1·8	111	0	•	•	•	•	•	•	2	0·18	- 0·44	5·8	- 1·5	37	-10	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	59	12th	48	7th	56·3	49·7	52·8	- 4·1	76	0	•	•	•	•	•	•	5	0·16	- 0·45	•	•	•	•	• •
a Blacksod Point ..	60	7, 11	47	8th	58·9	50·1	54·2	- 2·7	85	0	•	•	•	•	•	•	6	0·79	+ 0·13	•	•	•	•	• •
p Markree Castle ..	61	7, 8, 12	37	8th	59·9	48·0	53·5	- 2·9	81	0	1	29	58·3	•	54·7	•	5	0·80	+ 0·06	3·0	- 1·4	18	- 9	Markree Castle.
a Birr Castle	62	6, 7, 12	38	8th	60·4	47·7	53·6	- 4·3	81	0	•	•	•	•	•	•	5	0·34	- 0·29	*2·7*	*- 1·9*	*17*	*-12*	*Birr Castle.*
b, East .. { *p* Armagh	63	6, 9	40	8th	61·6	48·0	54·3	- 2·8	86	0	0	33	60·0	-0·8	56·2	+0·1	4	0·31	- 0·35	3·3	- 1·6	20	-10	Armagh.
a Donaghadee	59	12th	48	7, 8, 10	58·0	49·7	53·6	- 3·4	81	0	•	•	•	•	•	•	6	0·33	- 0·29	•	•	•	•	• •
											0	38	59·5	-1·2	56·7	+0·1	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											1	28	•	•	•	•	—	—	—	3·5	- 2·3	21	-14	Phœnix Park.
a, East .. { *p* Dublin, City	65	9ta	44	8th	62·4	50·8	56·2	- 4·0	99	0	0	42	•	•	•	•	5	0·27	- 0·27	•	•	•	•	Dublin City.
a Kilkenny	67	11th	40	8th	63·0	49·3	55·7	- 3·3	96	0	•	•	•	•	•	•	4	0·24	- 0·36	•	•	•	•	• •
a Waterford	67	6th	44	6th	64·7	50·0	56·8	- 2·5	104	0	•	•	•	•	•	•	2	0·14	- 0·59	•	•	•	•	• •
a Birr Castle	62	6, 7, 12	38	8th	60·4	47·7	53·6	- 4·3	81	0	•	•	•	•	•	•	5	0·34	- 0·29	2·7	- 1·9	17	-12	Birr Castle.
a Foynes	61	8th	45	8th	59·0	50·4	54·4	- 4·1	87	0	•	•	•	•	•	•	4	0·48	- 0·16	•	•	•	•	• •
a Cahir	65	6, 7, 12	42	8th	63·3	50·1	56·2	- 2·7	99	0	•	•	•	•	•	•	3	0·39	—	•	•	•	•	• •
b, West .. { *a* Killarney	69	12th	44	8th	63·6	50·9	56·8	- 1·3	104	0	•	•	•	•	•	•	5	0·47	- 0·26	•	•	•	•	• •
a Valencia	61	12th	44	8th	59·3	50·7	54·7	- 3·2	89	0	•	•	•	•	•	•	5	0·52	- 0·31	3·5	- 1·7	22	-11	Valencia.
a Roche's Point ..	64	11th	48	8th	61·6	51·3	56·1	- 2·5	99	0	•	•	•	•	•	•	2	0·19	- 0·45	3·6	—	23	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	63	11, 12	51	8th	61·7	53·0	57·1	- 3·1	106	0	•	•	•	•	•	•	5	0·15	- 0·36	4·3	- 3·1	27	-19	Scilly.
a Jersey, St. Aubins ..	66	12th	52	8th	62·6	54·0	58·0	- 3·5	112	0	•	•	•	•	•	•	2	0·34	- 0·16	3·9	- 4·1	25	-26	St. Heliers.
a Guernsey (Villa Carey)	67	11th	52	8, 9	62·1	53·0	57·2	- 3·5	106	0	0	42	61·2	-1·4	59·1	-0·2	2	0·48	- 0·01	5·1	- 3·1	32	-20	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·0 hrs. 19 °/₀; Ramsgate, 3·0 hrs. 56 °/₀; Rhyl, 4·8 hrs. 29 °/₀; Salcombe, 5·1 hrs. 32 °/₀; Tenby, 3·8 hrs. (- 3·2) 24 °/₀ (- 20); Torquay, 4·3 hrs. (- 3·1) 27 °/₀ (- 19).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, July 12th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	52	51	51·6	0·0	SCOTLAND, W. ..	{ Lamlash	56	54	55·0	-0·7
	{ Kirkwall	56	53	54·5	+0·6		{ Ballantrae	56	53	54·7	-0·3
	{ Wick	53	51	51·6	-1·0	ENGLAND, N.W. ..	Port Erin	55	53	53·2	-1·4
SCOTLAND, E. ..	{ Cromarty	57	53	55·2	+1·0	ENGLAND, S.W. ..	{ Newquay	59	58	58·7	-1·2
	{ Pennan Bay	57	55	55·9	+0·7		{ Scilly	61	57	59·2	—
	{ Aberdeen, Cove Bay	54	53	53·4	0·0		{ Plymouth‡	58	57	57·8	-1·2
ENGLAND, N.E. ..	{ Burnmouth, Berwick	52	48	50·0	-3·0		{ Salcombe	61	57	59·2	+2·3
	{ Scarborough	56	52	54·0	-0·6	IRELAND, N.W. ..	{ Sheephaven	58	56	57·2	-0·9
ENGLAND, E. ..	Shipwash Lightship	61	56	58·8	-0·5		{ Teelin	57	55	55·9	-3·6
ENGLAND, S.E. ..	Eastbourne‡	62	61	61·9	+0·6	IRELAND, S.W. ..	{ Cleggan	59	56	57·8	+0·4
							{ Seafield	62	59	60·5	-0·1
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-EIGHTH WEEK—July 6th to July 12th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	69	36	59·4	47·4	53·0	− 1·7	77	− 12	0	0	3	− 1	0·23	−0·57	5·3	+1·1	30	+ 6
Eastern.																		
1. SCOTLAND, EAST ...	72	34	61·8	46·5	53·6	− 2·9	81	− 21	0	0	3	− 1	0·30	−0·41	5·5	+0·2	32	+ 1
2. ENGLAND, N.E.	73	39	62·3	47·3	54·3	− 4·5	86	− 32	0	0	3	− 1	0·22	−0·26	4·7	−1·8	28	−11
3. ENGLAND, EAST ...	78	41	64·5	47·9	55·7	− 5·0	96	− 35	0	0	3	0	0·19	−0·33	5·0	−2·1	31	−13
4. MIDLAND COUNTIES ...	75	41	63·3	48·8	55·6	− 4·5	95	− 32	0	0	3	0	0·47	−0·03	2·4	−3·9	15	−24
5. ENGLAND, S.E.	74	42	64·2	50·2	56·7	− 4·8	103	− 33	0	0	4	+ 1	0·49	+0·02	4·2	−3·1	26	−19
Western.																		
6. SCOTLAND, WEST ...	67	38	61·4	48·1	54·3	− 2·9	86	− 20	0	0	4	0	0·47	−0·38	4·3	−1·4	25	− 8
7. ENGLAND, N.W.	66	40	61·0	49·9	55·0	− 3·9	91	− 27	0	0	4	+ 1	0·83	+0·20	3·8	−2·4	23	−14
8. ENGLAND, S.W.	71	37	62·3	51·1	56·3	− 3·5	100	− 25	0	0	3	− 1	0·25	−0·39	4·1	−2·5	26	−15
9. IRELAND, NORTH ...	63	37	59·2	48·9	53·7	− 3·7	82	− 26	0	0	5	0	0·46	−0·27	3·2	−1·4	19	− 9
10. IRELAND, SOUTH ...	69	38	61·9	50·1	55·6	− 3·3	95	− 23	0	0	4	+ 1	0·34	−0·35	3·3	−1·9	20	−12
11. ENGLISH CHANNEL ...	67	51	62·1	53·3	57·4	− 3·8	108	− 27	0	0	3	0	0·32	−0·20	4·4	−3·7	28	−24

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 6 Weeks, June 1st to July 12th, 1913.

0. SCOTLAND, NORTH ...	76	33	*	*	*	*	475	− 8	0	− 2	22	− 1	4·69	+ 0·51	4·5	−0·4	25	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	34	*	*	*	*	525	− 20	0	− 1	20	0	2·74	− 0·64	5·5	−0·3	32	− 2
2. ENGLAND, N.E.	82	37	*	*	*	*	580	− 28	0	0	19	+ 1	1·56	− 1·09	5·7	−0·7	34	− 4
3 ENGLAND, EAST ...	84	38	*	*	*	*	635	− 51	0	0	15	− 2	1·34	− 1·46	5·8	−1·2	35	− 7
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	632	− 45	0	0	15	− 2	1·55	− 1·32	5·2	−1·1	32	− 7
5. ENGLAND, S.E.	84	38	*	*	*	*	660	− 60	0	0	13	− 3	1·32	− 1·29	6·0	−1·2	37	− 7
Western.																		
6. SCOTLAND, WEST ...	77	38	*	*	*	*	550	− 38	0	0	22	+ 1	3·46	− 0·84	5·6	−0·6	33	− 3
7. ENGLAND, N.W.	78	36	*	*	*	*	587	− 52	0	0	20	+ 1	3·38	+ 0·09	5·4	−1·1	32	− 7
8. ENGLAND, S.W.	83	34	*	*	*	*	608	− 65	0	0	16	− 3	1·84	− 1·42	6·1	−0·8	38	− 5
9. IRELAND, NORTH ...	75	35	*	*	*	*	502	− 90	0	0	24	0	3·92	+ 0·10	4·4	−0·9	26	− 6
10. IRELAND, SOUTH ...	79	38	*	*	*	*	567	− 87	0	0	22	+ 2	3·29	− 0·34	5·3	−0·6	32	− 4
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	636	− 78	0	0	17	− 2	1·26	− 1·37	6·8	−1·4	43	− 9

THE YEAR.—Aggregates, &c., for the Period of 28 Weeks, December 29th, 1912, to July 12th, 1913.

0. SCOTLAND, NORTH ...	76	21	*	*	*	*	880	− 51	424	−133	128	+ 1	26·38	+1·36	3·0	−0·6	23	− 4
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	970	−106	601	− 19	112	+ 8	15·97	+1·33	3·6	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	1,165	+ 5	406	− 69	105	+10	12·85	+1·72	3·7	−0·7	29	− 6
3. ENGLAND, EAST ...	84	20	*	*	*	*	1,415	+ 38	303	−218	96	+ 4	10·70	−0·42	4·1	−0·6	32	− 5
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	1,342	− 54	392	−141	102	+11	15·34	+2·76	3·5	−0·7	27	− 6
5. ENGLAND, S.E.	84	22	*	*	*	*	1,467	− 20	221	−160	95	+ 8	13·60	+1·38	4·3	−0·5	34	− 4
Western.																		
6. SCOTLAND, WEST ...	77	17	*	*	*	*	1,117	− 63	323	−102	122	+12	24·41	+2·29	3·4	−0·8	27	− 6
7. ENGLAND, N.W.	78	10	*	*	*	*	1,209	− 54	298	− 88	116	+16	19·67	+4·09	3·6	−0·7	28	− 6
8. ENGLAND, S.W.	83	19	*	*	*	*	1,359	− 79	221	− 80	116	+17	22·32	+4·98	4·0	−0·7	31	− 6
9. IRELAND, NORTH ...	75	21	*	*	*	*	1,134	−118	297	− 48	134	+15	22·09	+4·31	3·4	−0·6	27	− 5
10. IRELAND, SOUTH ...	79	22	*	*	*	*	1,340	−133	243	− 16	134	+28	25·70	+6·55	3·7	−0·7	29	− 5
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	1,594	− 39	38	− 71	112	+ 6	16·09	+1·54	4·5	−1·1	36	− 9

M.O., July 16, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 113

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 29. TWENTY-NINTH WEEK, SUNDAY, JULY 13TH, TO SATURDAY, JULY 19TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather was generally in a very changeable condition, but the rainfall on some days was only slight and partial. Thunderstorms occurred locally in the south of England on Monday and Tuesday; on the former day storms were also experienced at Crathes and Dublin.

Temperature was slightly above the average in Scotland and in England North-East, but below it in all other districts. The highest readings occurred at various times, but mostly either on the 14th or 15th or on the 17th. In Ireland and the north of Scotland the thermometer did not reach 70° but in other parts of the Kingdom it exceeded that level, and in England East it touched 75°. The lowest readings, which occurred also at times varying greatly in the different districts, ranged from 41° in England South-West and 43° in the Midland Counties and England North-West to 49° in Ireland and to 53° in the English Channel. The mean temperature of the soil was in most places rather below the average, at a depth both of 1 foot and 4 feet, but in the east of Scotland and the north of England the thermometer at a depth of 1 foot recorded an excess of warmth.

Mean Temperature of the Sea was lower in most places than in the corresponding week of last year, but on the Scottish coasts it was slightly above the average. On the English and Irish coasts it was, in most places, decidedly below the normal. The mean values ranged from 61°·8 at Seafield and 60°·2 at Shipwash to between 52° and 54° on the north and north-east coasts of Great Britain.

Rainfall amounted to considerably less than the average in all districts excepting England East and South-East, where there was a large excess, due to heavy falls which occurred on the 14th, when more than an inch was registered at many of the eastern stations, and as much as 2 inches at Lowestoft. On the same day nearly 1¼ in. was recorded during a thunderstorm which occurred at Crathes.

Bright Sunshine was very deficient, especially in the Midland Counties, England South-East and Ireland North, where the mean daily duration amounted to less than 2 hours, and the proportion of the possible ranged between 10 and 12 per cent. In England North-West the daily mean amounted to 4·3 hours, in the English Channel to 4·5 hours, and in Scotland West to 4·6 hours, but even in those districts the percentage of the possible duration was less than 30.

Barometer and Wind. At the commencement of the week, when a shallow area of low pressure advanced over our northern districts from the Atlantic, light to moderate breezes from South-West, veering to West or North-West, were experienced very generally. Later on the northern disturbance moved south-eastwards, while a smaller depression travelled north-eastwards across Portugal, the Bay of Biscay and France, the two systems ultimately becoming united over the Netherlands and North Germany, and causing a temporary shift of the wind to the Northward over nearly the whole of the United Kingdom. During the latter half of the week a large depression of little intensity moved steadily eastwards from Iceland to Scandinavia, while small secondary disturbances passed in a similar direction across these Islands. The prevailing winds were consequently from between West and South-West, but the force did not exceed that of a moderate breeze.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 115.	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient
Rainfall ...	Moderate	Light	Light	Heavy	Very light	Heavy	Moderate	Light	Light	Light	Light	Very light
Sunshine ...	Very scanty	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Scanty	Scanty	Very scanty	Very scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 7 weeks from June 1st, 1913. Warmth ...	2*2	0*2	2*3	2*2	1*3	1*4	1*3	1*3	1*4	0*4	0*4	0*4
Rainfall ...	2*3	1*4	0*5	1*1	0*4	1*3	2*2	2*3	1*5	1*3	2*3	0*3
Sunshine ...	2*3	2*3	2*4	1*4	1*4	1*5	1*4	1*4	0*3	1*5	1*3	1*5

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks. Warmth ...	0*7	0*8	2*7	4*5	3*7	3*7	2*6	2*7	1*8	0*8	0*9	2*7
Rainfall ...	4*2	5*1	10*0	7*1	8*2	8*3	7*3	9*2	9*1	7*2	7*3	8*2
Sunshine ...	1*7	0*12	0*11	2*7	0*9	0*8	1*8	1*10	1*10	1*9	1*11	0*9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks. Warmth ...	1*7	3*5	3*5	0*5	3*4	0*7	3*6	3*7	2*5	4*5	3*4	1*6
Rainfall ...	5*5	6*4	4*5	6*6	3*8	4*9	2*6	2*5	4*8	2*6	2*8	4*7
Sunshine ...	3*8	4*8	2*4	2*6	1*5	3*5	1*5	5*5	4*6	3*5	1*5	4*6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks. Warmth ...	5*3	5*3	6*2	5*1	6*2	7*1	8*3	6*1	6*2	9*1	8*3	8*1
Rainfall ...	6*5	5*3	4*3	5*2	5*3	5*3	5*3	5*3	7*3	6*2	6*2	5*4
Sunshine ...	1*6	0*7	1*8	2*7	2*9	3*6	0*9	2*4	1*8	0*8	0*8	1*9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks. Warmth ...	2*5	2*5	5*2	5*2	4*2	4*2	2*4	4*3	3*2	1*3	1*3	3*4
Rainfall ...	6*2	5*3	5*4	5*2	7*3	6*1	8*2	7*3	6*1	7*2	6*1	7*3
Sunshine ...	3*3	2*3	1*4	2*6	2*5	2*4	1*8	1*4	0*6	2*5	1*6	0*10

(30986—24.) Wt. 196—766. 450. 7/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Rainfall. Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*60*	*13th*	*49*	*15, 16, 19*	*58·0*	*50·3*	*53·9*	—	*83*	*0*	•	•	55·8		•		*4*	*0·29*		*4·4*	—	*25*	—	*Baltasound.*
a Islands.. *a* Lerwick	60	13th	48	16th	57·4	50·7	53·8	—	83	0	•	•	•		•		2	0·17	—	2·2	− 2·3	13	−13	Deerness.
a Stornoway	62	13th	50	19th	57·9	52·3	54·9	+ 0·6	90	0	•	•	•		•		6	0·45	− 0·24	0·9	− 3·7	5	−22	Stornoway.
a Castlebay, Barra Isd.‡..	*58*	*14, 15*	*51*	*18th*	*56·7*	*52·1*	*54·2*	*− 0·5*	*85*	*0*	•	•	•		•		*6*	*0·60*	—	*1·6*	—	*10*	—	*Castlebay.*
a Wick	62	17th	47	19th	57·1	51·0	53·8	− 0·6	83	0	•	•	•		•		6	0·33	− 0·28	•	•	•	•	• •
b, Main- *p* Strathpeffer ..	68	13th	50	19th	63·3	53·1	57·8	+ 1·7	111	0	•	•	•		•		6	1·01	+ 0·38	1·3	− 2·9	8	17	Strathpeffer.
land. *p* Glencarron ..	66	13, 16	49	19th	60·6	51·7	55·8	+ 1·9	97	0	•	•	•		•		5	0·96	− 0·29	•	•	•	•	• •
p Fort Augustus..	67	14th	51	19th	62·3	53·4	57·5	+ 1·6	109	0	•	•	•		•		5	0·58	− 0·09	1·9	− 1·3	11	− 8	Fort Augustus.
p Fort William .. S	68	15th	49	13th	63·3	52·1	57·3	+ 1·1	107	0	•	•	•		•		5	0·51	− 0·64	•	•	•	•	• •
1. SCOTLAND, E.																								
p Gordon Castle.. S	67	13th	47	16th	63·0	49·7	55·9	− 0·8	97	0	0	42	59·7	+1·7	54·2	0·0	—	—	—	2·8	—	17	—	Crathes S.
a Nairn	65	14, 16	49	13, 19	63·1	51·9	57·1	+ 0·5	106	0	•	•	•		•		6	0·30	− 0·48	*2·1*	—	*12*	—	*Gordon Castle.*
a Aberdeen ..	69	14, 17	46	16th	65·6	53·0	58·9	+ 2·5	118	0	•	•	•		•		5	0·55	− 0·02	2·3	—	14	—	Nairn.
a Balmoral ..	64	13, 15, 18	49	18, 19	63·1	50·9	56·6	+ 2·3	102	0	•	•	•		•		5	0·27	− 0·36	3·1	− 2·1	18	−13	Aberdeen.
p Crieff	71	14, 18	50	19th	67·4	52·6	59·5	+ 1·6	123	0	•	•	•		•		2	0·13	− 0·52	•	•	•	•	Balmoral.
a Leith	70	14, 18	52	13th	66·6	54·9	60·3	+ 1·9	128	0	•	•	•		•		4	0·24	− 0·44	5·1	—	31	—	Balruddery.
p West Linton .. S	68	14th	47	15th	63·6	50·6	56·7	+ 1·3	103	0	0	41	•		•		4	0·06	− 0·54	•	•	•	•	• •
p Marchmont .. S	71	14th	50	19th	65·1	52·1	58·2	+ 1·7	113	0	0	47	60·3	+2·2	•	•	3	0·17	—	*3·3*	—	*20*	—	*West Linton.*
																	1	0·05	− 0·70	3·3	− 2·2	20	−13	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	68	13, 14	51	15, 16, 19	65·9	52·9	59·0	+ 1·7	119	0	0	45	59·4	+1·1	54·6	−0·3	4	0·09	− 0·55	2·5	—	15	—	Cockle Park.
a Shields	66	13, 17	51	15th	64·0	53·7	58·5	+ 0·8	116	0	•	•	•		•		1	0·01	− 0·55	•	•	•	•	• •
p Durham	67	13th	49	15th	65·2	52·2	58·3	− 0·5	114	0	0	43	•		•		1	0·06	− 0·60	2·2	− 3·2	13	−19	Durham.
a, North .. *p* Rounton	71	13th	48	15, 16	66·1	52·6	58·9	+ 1·3	118	0	0	43	59·3		•		4	1·15	+ 0·53	•	•	•	•	Rounton.
a West Witton	*69*	*18th*	*51*	*15, 19*	*65·9*	*53·6*	*59·3*	—	*121*	*0*	0	46	59·6		53·3		*3*	*0·06*	—	•	•	•	•	*West Witton.*
p Scarborough	68	14, 17	53	16, 17	64·1	55·6	59·6	+ 0·9	123	0	•	•	•		57·8†		2	0·03	− 0·52	2·7	—	17	—	Scarborough.
p York	72	13th	53	16, 19	67·7	55·6	61·2	+ 1·1	134	0	•	•	59·4	+0·7	55·8	+0·4	1	0·01	− 0·56	2·6	− 3·1	16	−19	York.
											0	45	60·4	+0·6	54·0	−0·5	—	—	—	*1·1*	—	*7*	—	*Hull.*
a Spurn Head	68	17th	49	16th	64·6	54·6	59·3	− 0·4	121	0	•	•	•	•	•	•	4	0·05	− 0·33	*2·2*	—	*14*	—	*Spurn Head.*
b, South .. *a* Lincoln	72	13th	52	15, 16	68·4	54·7	61·1	0·0	134	0	•	•	61·4	+1·1	55·8	+0·1	2	0·05	− 0·45	•	•	•	•	Lincoln.
a Fulbeck	73	13th	51	15, 16	68·4	53·3	60·3	− 0·5	128	0	0	45	60·9	−3·1	55·9	−1·4	1	0·04	− 0·48	1·5	—	9	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·2	—	14	—	Skegness.
											0	49	62·0	−0·7	57·8	−0·5	—	—	—	*5·1*	—	*32*	—	*Lowestoft.*
3. ENGLAND, E.																								
p Cromer	72	17th	52	17th	65·6	54·7	59·8	− 0·2	125	0	•	•	•	•	•	•	6	0·58	—	2·1	—	13	—	Cromer.
p Little Massingham ..	75	13th	52	17, 19	67·9	54·4	60·7	+ 0·1	131	0	0	51	•	•	•	•	5	0·55	—	1·4	—	9	—	Lit. Massingham.
a, North .. *a* Yarmouth	71	13, 17, 18	49	19th	67·0	55·1	60·6	+ 0·4	130	0	•	•	63·1	−1·1	58·3	−2·0	4	1·27	+ 0·73	4·1	—	26	—	Yarmouth.
a Norwich	74	14th	52	17th	67·4	54·7	60·6	+ 0·3	130	0	0	48	61·0	•	•	•	5	1·66	—	*2·8*	—	*18*	—	*Norwich.*
a Geldeston	75	14th	51	19th	68·3	54·1	60·7	+ 0·2	131	0	•	•	•	•	•	•	4	1·89	+ 1·39	3·2	− 3·7	20	−23	Geldeston.
p Cambridge	74	14th	50	14th	68·0	53·7	60·4	− 1·5	129	0	0	44	61·9	−0·8	57·9	−0·8	4	0·48	− 0·04	2·1	− 4·6	13	−29	Cambridge.
a Felixstowe	*74*	*17th*	*53*	*14th*	*66·3*	*55·4*	*60·5*	*− 1·2*	*130*	*0*	•	•	•	•	•	•	*5*	*1·21*	—	*2·5*	—	*16*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	70	17th	53	19th	66·0	55·3	60·3	− 1·4	128	0	0	44	61·1	+0·4	58·4	−0·6	5	0·93	—	2·2	—	14	—	Clacton.
a Rothamsted	71	14th	47	14th	66·3	51·9	58·6	− 1·8	116	0	•	•	•	•	•	•	5	0·62	+ 0·07	1·3	− 5·6	8	−36	Rothamsted.
a Shoeburyness	*70*	*13th*	*51*	*15th*	*65·7*	*54·7*	*59·8*	*− 3·4*	*125*	*0*	0	44	62·7	−2·1	•	•	*5*	*1·03*	+ *0·63*	*2·4*	—	*15*	—	*Southend.*
p Tottenham	72	17th	52	15th	67·6	55·3	61·0	− 1·0	133	0	0	50	•	•	60·0	+0·1	4	0·90	—	1·1	—	7	—	Tottenham.
4. MIDLAND COUNTIES.																								
											0	46	60·3	−0·4	54·2	−0·5	—	—	—	*3·0*	—	*18*	—	*Huddersfield.*
a Harrogate	68	13th	50	19th	64·6	52·9	58·3	+ 0·8	114	0	0	48	57·8	+1·1	55·4	+0·6	5	0·15	− 0·39	2·6	—	16	—	Harrogate.
a Bawtry	73	13th	50	15th	69·0	54·3	61·1	+ 0·9	134	0	0	41	59·6	•	55·8	•	1	0·02	− 0·50	1·7	− 3·7	11	−23	Worksop.
p Buxton	*67*	*15th*	*46*	*15th*	*63·1*	*51·6*	*57·6*	*+ 0·1*	*105*	*0*	0	44	57·6	−1·2	52·8	−0·4	*6*	*0·27*	− *0·58*	*2·3*	—	*14*	—	*Buxton.*
a, East .. *a* Nottingham	71	17th	52	15th	67·9	54·7	60·8	+ 0·1	132	0	0	49	60·4	−0·4	56·9	+0·2	6	0·10	− 0·41	1·5	—	9	—	Nottingham.
p Birmingham, Edgbsn.	68	15, 17	49	15th	65·4	53·6	59·1	− 1·1	120	0	0	47	55·4	−0·9	51·7	−0·4	3	0·10	− 0·40	0·8	—	5	—	Birmingham.
a Raunds	73	13, 17	53	15, 19	68·6	55·0	61·3	+ 0·1	135	0	0	46	60·7	•	56·1	•	3	0·18	—	•	•	•	•	Raunds.
p Oxford	69	13th	52	19th	67·0	55·0	60·6	− 1·0	130	0	0	48	•	•	•	•	4	0·47	− 0·07	0·4	− 6·1	3	−39	Oxford.
											0	48	58·8	+0·2	54·2	+0·3	•	•	•	2·6	—	16	—	Sheffield.
a Cheadle	69	13 15	45	19th	65·4	51·1	57·8	− 0·5	111	0	0	40	•	•	•	•	3	0·05	− 0·58	•	•	•	•	Cheadle.
p Shrewsbury	70	17th	47	15th	65·9	53·0	59·0	− 0·5	119	0	0	40	•	•	•	•	4	0·21	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	72	15th	43	15th	66·9	52·0	58·9	− 1·4	118	0	0	37	•	•	•	•	3	0·29	− 0·21	•	•	•	•	Hereford.
a Cirencester	73	17th	48	19th	67·2	53·9	60·1	+ 0·5	127	0	0	44	60·1	•	56·6	•	4	0·21	− 0·37	1·6	− 4·8	10	−30	Cirencester.
a Bath	72	15th	50	15th	68·4	54·7	61·1	+ 0·1	134	0	•	•	•	•	•	•	5	0·11	− 0·47	2·3	—	15	—	Bath.
5. ENGLAND, S.E.																								
p Kew	72	14th	53	15, 17	67·3	55·1	60·8	− 1·4	132	0	0	47	64·5	+3·3	58·9	+0·1	—	—	—	•	•	•	•	Canterbury.
a Marlborough	70	15th	47	19th	66·1	51·9	58·5	− 1·2	116	0	0	42	61·2	−0·8	57·1	−0·1	5	1·35	+ 0·83	1·0	− 5·7	6	−36	Kew.
a Margate	69	17th	53	13th	66·1	55·7	60·5	− 1·4	130	0	0	44	•	•	56·2	—	4	0·74	+ 0·19	1·1	− 5·0	7	−32	Marlborough.
a Wisley, Surrey ..	73	14th	51	14th	67·1	53·0	59·6	− 3·1	123	0	0	49	60·4	−1·2	56·3	−1·6	3	0·46	+ 0·02	1·6	− 5·1	10	−32	Margate.
											0	42	61·8	−0·6	57·9	−0·8	4	0·32	—	1·8	—	11	—	Wisley.
											0	48	62·7	−1·2	58·8	−0·5	—	—	—	2·7	—	17	—	Worthing.
p Salisbury (Wilton) ..	71	15, 17	47	14th	68·6	52·0	59·7	− 2·4	124	0	0	44	63·2	•	•	•	3	0·35	− 0·16	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	66	13, 16, 17	51	19th	64·6	54·3	59·1	− 2·0	126	0	•	•	•	•	•	•	5	1·11	+ 0·71	2·2	—	14	—	Littlestone.
p Hastings.. ..	67	14, 16, 17	52	17th	64·9	53·6	58·9	− 2·2	118	0	0	47	62·8	•	59·0	•	5	1·34	+ 0·84	*2·6*	− *5·2*	*17*	− *33*	*Hastings.*
p Southampton	71	14th	52	14, 19	68·3	55·3	61·4	− 1·6	136	0	0	46	•	•	•	•	5	0·20	− 0·35	1·5	− 5·7	9	−36	Southampton.
a Ventnor	69	18th	53	14th	66·0	55·0	60·1	− 1·8	127	0	•	•	•	•	•	•	5	0·14	− 0·33	2·9	− 4·2	19	27	Ventnor.
											0	43	62·8	−2·0	59·2	−1·1	—	—	—	*2·3*	—	*15*	—	*Portsmouth.*
											•	•	62·3	•	59·0	•	—	—	—	2·7	− 5·0	17	−32	Eastbourne.
											•	•	61·3	•	59·5	•	—	—	—	*2·4*	—	*15*	—	*Bournemouth.*
LONDON.											•	•	•	•	•	•	—	—	—	•	•	•	•	*Brighton.*
a Westminster	*71*	*14, 17*	*53*	*15th*	*67·7*	*55·1*	*61·0*	*− 1·2*	*133*	*0*	0	48	•	•	•	•	*4*	*0·92*	+ *0·42*	*0·7*	− *5·2*	*4*	− *32*	*Westminster.*
a Greenwich	*74*	*17th*	*51*	*14th*	*68·6*	*53·6*	*60·6*	*− 2·5*	*130*	*0*	0	42	•	•	•	•	*5*	*0·52*	− *0·01*	*0·9*	− *6·7*	*6*	− *42*	*Greenwich.*
a Hampstead	*71*	*14th*	*50*	*15th*	*67·1*	*52·3*	*59·2*	—	*120*	*0*	0	44	•	•	•	•	*4*	*1·33*	—	*1·1*	—	*7*	—	*Hampstead.*
a Camden Square ..	*75*	*14th*	*52*	*17th*	*70·4*	*54·1*	*61·7*	—	*138*	*0*	0	50	•	•	•	•	*4*	*1·10*	—	*1·0*	—	*6*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	67	13, 15	50	16th	62·0	52·0	56·7	− 0·8	103	0	•	•	•	•	•	•	5	1·06	+ 0·10	•	•	•	•	• •
p Glasgow .. .. S	70	15th	51	19th	64·0	51·0	58·7	+ 1·2	117	0	0	47	•	•	•	•	2	0·51	− 0·24	4·0	− 0·6	24	− 3	Glasgow.
p Rothesay	73	15th	51	14, 15, 19	64·1	52·3	57·8	+ 0·5	111	0	•	•	•	•	55·3	+0·3	4	0·65	− 0·32	•	•	•	•	• •
a Kilmarnock	70	15th	48	15th	64·1	52·0	57·6	0·0	109	0	•	•	•	•	•	•	4	0·34	—	*4·7*	—	*28*	—	*Kilmarnock.*
a Colmonell	67	13, 15	49	16th	63·9	52·9	58·0	+ 0·8	112	0	0	45	•	•	•	•	5	0·33	− 0·46	•	•	•	•	• •
p Dumfries	68	15th	50	19th	63·6	53·4	58·1	− 0·6	113	0	0	47	61·0	•	57·9	•	4	0·14	− 0·65	*3·6*	—	*22*	*0*	*Dumfries.*
p Cally, Gatehouse .. S											•	•	•	•	•	•	—	—	—	•	•	•	•	• •
b I. OF MAN.																								
p Douglas	68	15th	50	16, 19	60 9	52·0	56·1	− 1·2	99	0	0	47	•	•	•	•	5	0·20	− 0·55	5·2	− 1·2	32	− 7	Douglas.
											0	38	57·9	−0·8	53·7	−0·7	—	—	—	*2·2*	—	*14*	—	*Burnley.*
											•	•	•	•	•	•	—	—	—	4·5	—	28	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	70	15th	46	15th	64·3	52·0	57·7	+ 0·9	110	0	0	39	59·9	•	54·2	•	4	0·26	− 0·64	5·3	—	32	—	Aspatria
p Newton Rigg	70	15th	46	15th	65·6	51·6	58·1	+ 1·3	113	0	0	41	61·0	−1·2	54·9	−0·1	5	0·22	− 0·50	4·3	− 1·4	26	− 9	Newton Rigg.
p Stonyhurst	67	15th	48	15th	63·7	53·1	58·0	− 0·1	112	0	0	37	•	•	•	•	4	0·64	− 0·29	3·8	− 2·0	23	−12	Stonyhurst.
p Blackpool	65	13th	50	15th	62·1	54·3	57·9	− 1·3	111	0	0	45	58·8	•	54·0	•	4	0·24	− 0·43	5·2	− 0·8	32	− 5	Blackpool.
p Manchester (Whit. Pk.)	68	15th	48	15th	65·1	54·4	59·4	− 0·5	122	0	•	•	•	•	•	•	4	0·22	− 0·38	*2·3*	− *2·7*	*14*	− *17*	*Whit. Park.*
a Liverpool (Bidston) ..	65	13th	53	13, 16, 19	62·6	53·7	57·8	− 2·5	111	0	•	•	•	•	•	•	6	0·34	− 0·28	*4·7*	—	*29*	—	*Liverpool.*
a Hawarden Bridge ..	70	13th	52	15th	64·7	55·0	59·5	− 0·6	123	0	0	44	64·1	+0·4	59·9	−0·3	3	0·13	− 0·40	*5·5*	− *0·9*	*34*	− *6*	*Southport.*
											0	45	60·3	+0·2	57·4	+0·2	—	—	—	*2·3*	—	*14*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	67	14th	53	14, 15, 19	64·6	54·3	59·1	− 0·6	120	0	•	•	•	•	•	•	2	0·27	—	4·0	− 2·0	25	−12	Llandudno.
a Holyhead	62	13, 15, 19	53	15th	61·6	54·4	57·8	− 0·4	111	0	•	•	•	•	•	•	5	0·51	− 0·07	*3·7*	—	*23*	—	*Holyhead.*
p Bettws-y-Coed ..	69	15th	43	19th	64·7	48·3	55·9	− 3·1	97	0	0	46	57·9	−0·2	54·1	+0·1	3	0·27	—	3·2	•	20	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	4·4	—	28	—	Aberdovey.

For notes see also opposite page.

† At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway used for this, and future reports.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				4·0	—	25	—	
a Llangammarch Wells	67	15th	41	15th	64·0	50·3	56·7	− 1·4	103	0	0	36	58·6	+0·8	54·1	+1·1	5	0·48	—	3·6	—	23	—	Aberystwyth.
a Pembroke	63	15th	50	17th	61·1	54·0	57·3	− 1·0	107	0	•	•	•	•	•	•	4	0·19	− 0·36	3·1	− 3·5	20	−22	Llangammarch
p Cardiff	72	15th	48	15th	66·6	53·1	59·4	− 1·6	122	0	0	40	60·9	+0·5	57·5	−0·6	3	0·09	+ 0·64	*3·6*	—	*23*	—	Pembroke.[Wells *Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	72	15th	51	15th	67·3	55·3	60·9	− 0·9	132	0	0	47	•	•	•	•	4	0·08	− 0·57	*2·7*	—	*17*	—	*Clifton.*
a Shaftesbury	69	17th	47	15th	64·9	53·1	58·6	− 1·1	116	0	•	•	60·2	•	57·5	•	4	0·17	− 0·42	•	•	•	•	Shaftesbury.
a Arlington	64	14, 18	49	16th	62·4	52·1	56·9	− 1·3	104	0	•	•	•	•	•	•	5	0·55	− 0·35	•	•	•	•	Arlington.
a Newquay	*64*	*18th*	*55*	*13-15*	*61·4*	*56·1*	*58·6*	− *1·5*	*116*	*0*	•	•	60·6	•	•	•	3	0·31	− 0·22	3·1	− 3·8	20	−24	Newquay.
a Cullompton	72	15th	47	15th	68·4	53·9	60·7	+ 0·3	131	0	0	40	63·2	•	•	•	4	0·08	− 0·57	3·4	− 2·7	22	−17	Cullompton.
a Portland	65	18th	55	15th	63·7	56·4	59·8	− 0·3	125	0	•	•	•	•	•	•	1	0·16	—	*4·2*	—	*27*	—	*Weymouth.*
p Plymouth	68	18th	51	19th	66·2	55·2	60·3	− 0·7	128	0	0	48	63·5	−1·6	•	•	1	0·01	− 0·64	3·9	− 2·9	25	−19	Plymouth.
p Falmouth	68	18, 19	55	15th	65·9	56·7	61·0	+ 0·8	133	0	•	•	•	•	•	•	2	0·08	− 0·58	5·2	− 2·1	33	−14	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	62	16th	50	14, 19	58·7	51·1	54·6	− 1·8	88	0	•	•	•	•	•	•	5	0·35	− 0·30	•	•	•	•	• •
a Blacksod Point ..	63	18th	51	14th	60·1	52·7	56·1	− 1·4	99	0	•	•	•	•	•	•	7	0·62	− 0·06	•	•	•	•	• •
p Markree Castle ..	64	17th	50	16th	61·6	52·1	56·5	− 0·4	102	0	0	49	59·0	•	55·0	•	4	0·58	− 0·19	2·0	− 2·2	12	−13	Markree Castle.
a Birr Castle ..	67	19th	49	14, 15	62·6	52·4	57·1	− 1·3	106	0	•	•	•	•	•	•	7	0·53	− 0·12	*1·3*	− *3·2*	*8*	−*20*	*Birr Castle.*
b, East .. { *p* Armagh	67	19th	51	14, 19	63·0	52·6	57·4	− 0·3	108	0	0	46	59·9	−1·6	56·2	−0·8	5	0·58	− 0·10	1·3	− 3·3	8	−20	Armagh.
a Donaghadee	66	17th	49	16th	61·7	52·4	56·7	− 0·8	103	0	•	•	•	•	•	•	4	0·27	− 0·39	•	•	•	•	• •
											0	49	59·6	−1·4	56·7	−0·6	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	42	•	•	•	•	—	—	—	1·6	− 3·8	10	−24	Phœnix Park.
a, East .. { *p* Dublin, City	66	13, 14, 18	53	14th	65·0	55·6	60·0	− 0·4	126	0	0	51	•	•	•	•	6	0·27	− 0·30	•	•	•	•	Dublin City.
a Kilkenny	68	19th	49	14th	64·4	53·3	58·5	− 0·4	116	0	•	•	•	•	•	•	6	0·40	− 0·22	•	•	•	•	• •
a Waterford	67	18th	50	14th	65·3	54·1	59·3	− 0·4	121	0	•	•	•	•	•	•	3	0·05	− 0·70	•	•	•	•	• •
b, West .. { *a* Birr Castle	67	19th	49	14, 15	62·6	52·4	57·1	− 1·3	106	0	•	•	•	•	•	•	7	0·53	− 0·12	1·3	− 3·2	8	−20	Birr Castle.
a Foynes	65	13th	50	16th	62·1	53·0	57·2	− 1·6	106	0	•	•	•	•	•	•	5	0·37	− 0·32	•	•	•	•	• •
a Cahir	69	19th	51	14, 16	65·9	53·6	59·3	+ 0·3	121	0	•	•	•	•	•	•	5	0·20	—	•	•	•	•	• •
a Killarney	67	17, 19	51	16th	65·2	53·9	59·2	+ 0·7	120	0	•	•	•	•	•	•	6	0·14	− 0·62	•	•	•	•	• •
a Valencia	63	18th	50	16th	61·0	53·7	57·1	− 1·3	106	0	•	•	•	•	•	•	7	0·43	− 0·43	3·1	− 1·8	19	−11	Valencia.
a Roche's Point	66	19th	50	14, 16	63·9	53·6	58·4	− 0·9	115	0	•	•	•	•	•	•	3	0·06	− 0·58	2·7	—	17	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	65	18th	55	13-16	63·7	55·6	59·4	− 1·3	122	0	•	•	•	•	•	•	1	0·01	− 0·53	3·6	− 3·4	23	−22	Scilly.
a Jersey, St. Aubins ..	72	17th	54	13th	66·9	55·9	61·0	− 1·2	133	0	•	•	•	•	•	•	2	0·02	− 0·48	5·2	− 2·9	33	−19	St. Heliers.
a Guernsey (Villa Carey)	67	13, 16	53	14th	65·4	55·0	59·8	− 1·5	125	0	0	48	61·6	−1·7	59·1	−0·8	2	0·03	− 0·46	4·6	− 3·7	30	−24	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·4 hrs. 15 %; Ramsgate, 2·6 hrs. 16 %; Rhyl, 5·1 hrs. 32 %; Salcombe, 4·0 hrs. 26 %; Tenby, 3·0 hrs. (−3·7) 19 % (−33); Torquay, 4·7 hrs. (−2·5) 30 % (−16).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, July 19th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	54	52	52·7	+0·3	SCOTLAND, W. ..	{ Lamlash	63	54	56·2	+0·3
	{ Kirkwall	55	53	54·3	−0·2	ENGLAND, N.W. ..	{ Ballantrae	58	55	56·1	+0·5
	{ Wick	54	51	53·0	+0·3		{ Port Erin	59	55	55·7	+0·5
SCOTLAND, E. ..	{ Cromarty	58	56	57·1	+1·4	ENGLAND, S.W. ..	{ Newquay	59	59	59·0	−1·7
	{ Pennan Bay	59	57	57·8	+1·8		{ Scilly	61	58	59·7	—
	{ Aberdeen, Cove Bay	55	54	54·2	+0·2		{ Plymouth‡	59	58	58·4	−1·5
ENGLAND, N.E. ..	{ Burnmouth, Berwick	53	50	51·9	−1·8		{ Salcombe	60	58	59·4	+1·7
	{ Scarborough	57	53	55·3	−0·1	IRELAND, N.W. ..	{ Sheephaven	58	56	57·2	−1·3
ENGLAND, E. ..	Shipwash Lightship	62	58	60·2	+0·2		{ Teelin	61	56	57·8	−1·7
ENGLAND, S.E. ..	Eastbourne‡	—	—	—	—	IRELAND, S.W. ..	{ Cleggan	59	65	56·7	−0·8
						IRELAND, E.	{ Seafield	64	60	61·8	+1·1
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-NINTH WEEK—July 13th to July 19th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	68	47	60·3	52·0	55·8	+ 0·8	97	+ 6	0	0	5	0	0·57	−0·21	1·6	−2·5	9	−15
Eastern.																		
1. SCOTLAND, EAST ...	71	46	64·7	52·0	57·9	+ 1·0	111	+ 7	0	0	3	− 1	0·22	−0·51	3·3	−1·8	20	−11
2. ENGLAND, N.E.	73	48	66·0	53·9	59·6	+ 0·9	123	+ 6	0	0	2	− 1	0·17	−0·37	2·3	−4·0	14	−24
3. ENGLAND, EAST ...	75	47	67·1	54·4	60·3	− 0·4	128	− 3	0	0	5	+ 2	0·99	+0·40	2·2	−4·5	14	−28
4. MIDLAND COUNTIES ...	73	43	66·9	53·7	59·8	− 0·3	125	− 2	0	0	4	+ 1	0·17	−0·41	1·7	−4·1	11	−26
5. ENGLAND, S.E.	73	47	66·6	54·0	59·8	− 1·8	125	− 12	0	0	4	+ 1	0·78	+0·23	1·9	−4·9	12	−31
Western.																		
6. SCOTLAND, WEST ...	73	48	63·2	52·7	57·6	+ 0·2	109	+ 1	0	0	4	0	0·46	−0·36	4·6	−0·8	28	− 5
7. ENGLAND, N.W.	70	43	63·9	53·1	58·1	− 0·9	113	− 6	0	0	4	0	0·31	−0·41	4·3	−1·3	27	− 7
8. ENGLAND, S.W.	72	41	65·1	54·0	59·2	− 0·8	120	− 6	0	0	3	− 1	0·19	−0·56	3·8	−2·4	24	−15
9. IRELAND, NORTH ...	67	49	61·3	52·2	56·4	− 1·0	101	− 7	0	0	5	0	0·49	−0·31	1·7	−2·7	10	−16
10. IRELAND, SOUTH ...	69	49	63·9	53·7	58·5	− 0·6	116	− 4	0	0	5	0	0·27	−0·45	2·2	−2·7	14	−17
11. ENGLISH CHANNEL ...	72	53	65·3	55·5	60·1	− 1·4	127	− 10	0	0	2	− 2	0·02	−0·55	4·5	−3·0	29	−20

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 7 Weeks, June 1st to July 19th, 1913.

0. SCOTLAND, NORTH ...	76	33	*	*	*	*	572	− 2	0	− 2	27	− 1	5·26	+ 0·30	4·0	−0·8	23	− 4
Eastern.																		
1. SCOTLAND, EAST ...	80	34	*	*	*	*	636	− 13	0	− 1	23	− 1	2·96	− 1·15	5·2	−0·5	30	− 3
2. ENGLAND, N.E.	82	37	*	*	*	*	703	− 22	0	0	21	0	1·73	− 1·46	5·2	−1·1	31	− 7
3 ENGLAND, EAST ...	84	38	*	*	*	*	762	− 55	0	0	20	0	2·32	− 1·07	5·3	−1·6	32	−10
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	757	− 47	0	0	19	− 1	1·72	− 1·73	4·7	−1·5	29	− 9
5. ENGLAND, S.E.	84	38	*	*	*	*	785	− 72	0	0	17	− 2	2·10	− 1·06	5·4	−1·7	34	−10
Western.																		
6. SCOTLAND, WEST ...	77	38	*	*	*	*	659	− 37	0	0	26	+ 1	3·92	− 1·20	5·5	−0·6	32	− 4
7. ENGLAND, N.W.	78	36	*	*	*	*	700	− 58	0	0	24	+ 1	3·69	− 0·32	5·2	−1·2	31	− 7
8. ENGLAND, S.W.	83	34	*	*	*	*	728	− 71	0	0	19	− 4	2·03	− 1·98	5·8	−1·0	36	− 6
9. IRELAND, NORTH ...	75	35	*	*	*	*	603	− 97	0	0	29	0	4·41	− 0·21	4·0	−1·2	24	− 7
10. IRELAND, SOUTH ...	79	38	*	*	*	*	683	− 91	0	0	27	+ 2	3·56	− 0·79	4·8	−0·9	30	− 5
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	763	− 88	0	0	19	− 4	1·28	− 1·92	6·5	−1·6	41	−10

THE YEAR.—Aggregates, &c., for the Period of 29 Weeks, December 29th, 1912, to July 19th, 1913.

0. SCOTLAND, NORTH ...	76	21	*	*	*	*	977	− 45	424	−133	133	+ 1	26·95	+1·15	3·0	−0·6	23	− 5
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,081	− 99	601	− 19	115	+ 7	16·19	+0·82	3·6	−0·6	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	1,288	+ 11	406	− 69	107	+ 9	13·02	+1·35	3·6	−0·9	28	− 7
3. ENGLAND, EAST ...	84	20	*	*	*	*	1,542	+ 34	303	−218	101	+ 6	11·68	−0·03	4·0	−0·8	31	− 6
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	1,467	− 56	392	−141	106	+12	15·51	+2·35	3·4	−0·9	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	1,592	− 32	221	−160	99	+ 9	14·38	+1·61	4·2	−0·6	33	− 5
Western.																		
6. SCOTLAND, WEST ...	77	17	*	*	*	*	1,226	− 62	323	−102	126	+12	24·87	+1·93	3·5	−0·8	27	− 6
7. ENGLAND, N.W.	78	10	*	*	*	*	1,322	− 60	298	− 88	120	+16	19·98	+3·68	3·6	−0·7	28	− 6
8. ENGLAND, S.W.	83	19	*	*	*	*	1,479	− 85	221	− 80	119	+16	22·51	+4·42	4·0	−0·8	31	− 6
9. IRELAND, NORTH ...	75	21	*	*	*	*	1,235	−125	297	− 48	139	+15	22·58	+4·00	3·4	−0·6	26	− 5
10. IRELAND, SOUTH ...	79	22	*	*	*	*	1,456	−137	243	− 16	139	+28	25·97	+6·10	3·7	−0·7	29	− 6
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	1,721	− 49	38	− 71	114	+ 4	16·11	+0·99	4·5	−1·2	35	−10

M.O., July 23, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 117

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 30. THIRTIETH WEEK, SUNDAY, JULY 20TH, TO SATURDAY, JULY 26TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. In all the western parts of the Kingdom, as well as in the extreme north, the conditions were generally fine and bright, but over the eastern and south-eastern districts there was much cloud, although little rain fell.

Temperature was below the average, the deficit ranging from more than 4° in England East and North-East to less than 1° in England South-West. The highest of the maxima were recorded at most stations during the latter half of the week, and ranged from 79° in Ireland South, and 78° in Scotland West to 70° in England North-East and East. About the middle of the week the maxima in the south-east and east of England were unusually low for the time of year—below 60° at some stations. The lowest of the minima, which occurred, as a rule, during the earlier days of the period, varied from 31° in Scotland East (at Balmoral on the 24th), and 38° in Scotland North and Ireland North to 45° in England East, and to 51° in the English Channel. The lowest grass readings reported were 29° at Balmoral, 31° at Markree Castle, and 32° at West Linton. The temperature of the earth at a depth of 1 foot, and also at 4 feet, was below the normal at nearly all stations, the defect at 1 foot amounted to as much as 5°·6 at Shoeburyness, and about 4°·5 at Great Yarmouth and Fulbeck.

Mean Temperature of the Sea. On our south-west coasts the sea water was warmer than in the corresponding week of last year, but in most other localities it was a trifle cooler. The mean values, which were above the average on the Scotch coasts and also off the south of Ireland, ranged from 62°·9 at Seafield, and a trifle above 60° off the south-west of England, to 54° and less on the north and north-east coasts of Great Britain, and to a little below 53° at Burnmouth.

Rainfall was much less than the normal in all districts. At a considerable number of stations in Scotland and the south-west of England, and at some in Ireland and the south of England, the week was rainless.

Bright Sunshine exceeded the average over the western section of the Kingdom and in Scotland North and East, but was deficient elsewhere. In England North-East, where the daily mean was less than 3 hours, the percentage of the possible duration was only 17, but in England South-West and the English Channel, the daily mean varied between 9 and 10 hours, and the percentages were respectively as high as 60° and 65°.

Barometer and Wind. A shallow depression appeared off the north-west of these Islands on Monday and subsequently travelled in a south-easterly direction, but as a whole the pressure distribution over the western and northern districts was anticyclonic. The eastern and south-eastern districts, however, were under the influence of a depression to the eastward. Until Tuesday night the centre of the system was over the south of Scandinavia, but it then moved south-south-westwards to Holland and caused the wind to increase to a high wind or gale from the North-Westward along the north-east coasts of Britain. The depression afterwards moved away in a south-easterly direction, and the wind over England moderated in force and shifted to the North-Eastward.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 119.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Deficient	Very deficient	Very deficient	Deficient	Deficient	Moderate	Deficient	Moderate	Moderate	Moderate	Deficient
	Rainfall ...	Very light	Very light	Very light	Moderate	Very light	Very light	Light	Light	Very light	Light	Very light	Very light
	Sunshine ...	Very abundant	Abundant	Scanty	Scanty	Scanty	Moderate	Very abundant	Abundant	Very abundant	Very abundant	Very abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 8 weeks from June 1st, 1913.	Warmth ...	2 * 2	0 * 3	2 * 4	2 * 3	1 * 4	1 * 5	1 * 3	1 * 4	1 * 4	0 * 4	0 * 4	0 * 5
	Rainfall ...	2 * 4	1 * 5	0 * 6	1 * 1	0 * 5	1 * 4	2 * 3	2 * 4	1 * 6	1 * 4	2 * 4	0 * 4
	Sunshine ...	3 * 3	3 * 3	2 * 5	1 * 5	1 * 5	1 * 5	2 * 4	2 * 4	1 * 3	2 * 5	2 * 3	2 * 5

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	8 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *1.	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(31085—24.) Wt. 196—766. 450. 7/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands.. p Baltasound .. S	59	24th	49	24th	57·3	49·4	53·1	—	78	0	•	•	55·3	•	•	•	1	0·01	—	4·3	—	42	—	Baltasound
a Lerwick..	57	24th	49	20, 24	55·7	49·7	52·5	0·0	74	0	•	•	•	•	•	•	1	0·02	—	7·8	+ 3·5	46	+20	Deerness.
a Stornoway	66	26th	45	24th	61·3	48·0	54·2	− 0·3	85	0	•	•	•	•	•	•	1	0·01	− 0·74	9·6	+ 5·1	58	+31	Stornoway.
a Castlebay, Barra Isd.‡..	63	24, 25, 26	49	23rd	60·4	51·0	55·4	+ 0·5	94	0	•	•	•	•	•	•	2	0·25	—	11·1	—	67	—	Castlebay.
b, Mainland. a Wick	59	23rd	43	24th	55·7	47·6	51·4	− 3·2	66	0	•	•	•	•	•	•	0	0·00	− 0·63	•	•	•	•	
p Strathpeffer	70	23rd	38	24th	65·4	45·4	54·7	− 1·4	89	0	•	•	•	•	•	•	0	0·00	− 0·63	8·1	+ 4·0	49	+24	Strathpeffer.
p Glencarron ..	75	26th	40	24th	64·3	45·4	54·2	+ 0·1	85	0	•	•	•	•	•	•	1	0·02	− 1·32	•	•	•	•	
p Fort Augustus..	63	23, 24	41	24th	61·4	47·1	53·8	− 2·5	83	0	•	•	•	•	•	•	0	0·00	− 0·70	6·4	+ 3·3	39	+20	Fort Augustus.
p Fort William ..	78	26th	42	24th	67·7	47·1	56·7	+ 0·2	103	0	•	•	•	•	•	•	0	0·00	− 1·25	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle..	63	23, 25	42	26th	60·3	47·3	53·4	− 3·3	80	0	0	35	57·7	−0·6	54·8	+0·1	—	—	—	4·4	—	27	—	Crathes S.
a Nairn	64	23rd	38	24th	60·6	46·0	52·8	− 3·8	76	0	•	•	•	•	•	•	1	0·02	− 0·78	5·8	—	35	—	Gordon Castle.
a Aberdeen ..	65	25th	46	22nd	60·3	49·4	54·5	− 2·0	88	0	•	•	•	•	53·3	+0·1	1	0·01	− 0·63	5·1	0·0	31	0	Aberdeen.
a Balmoral ..	71	26th	31	24th	65·1	42·0	52·8	− 1·3	76	0	2	29	•	•	•	•	0	0·00	− 0·70	•	•	•	•	Balmoral.
p Crieff	74	23rd	40	24th	67·7	47·7	57·0	− 0·8	105	0	•	•	•	•	•	•	0	0·00	− 0·75	7·3	—	45	—	Balruddery.
a Leith	67	23rd	48	20th	62·4	50·6	56·1	− 2·0	98	0	•	•	•	•	•	•	0	0·00	− 0·64	•	•	•	•	
p West Linton .. S	66	23rd	41	20, 22	60·9	43·9	51·8	− 3·6	69	0	0	32	•	•	•	•	1	0·13	—	6·5	—	49	—	West Linton.
p Marchmont .. S	63	20th	42	20th	60·4	45·0	52·2	− 4·3	71	0	0	36	57·7	−0·4	•	•	0	0·00	− 0·77	5·2	− 0·1	32	− 1	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	66	20th	44	22nd	59·9	48·3	53·7	− 3·5	82	0	0	39	56·6	−1·8	54·8	−0·4	2	0·03	− 0·62	2·1	—	13	—	Cockle Park.
a Shields	62	20th	46	20th	58·0	50·0	53·7	− 4·0	82	0	•	•	•	•	•	•	2	0·10	− 0·50	•	•	•	•	
p Durham	65	20th	45	20th	60·3	48·4	53·9	− 4·8	83	0	0	41	•	•	•	•	1	0·01	− 0·65	2·2	− 3·1	14	−19	Durham.
a, North .. p Rounton	64	20th	44	22nd	58·3	47·9	52·7	− 4·9	75	0	0	39	57·2	•	•	•	3	0·06	− 0·58	•	•	•	•	Rounton.
a West Witton ..	65	26th	43	26th	60·0	46·0	53·6	—	81	0	0	38	57·3	•	53·9	•	1	0·10	—	•	•	•	•	West Witton.
p Scarborough ..	64	20th	51	22–26	58·7	51·7	55·0	− 3·7	91	0	•	•	•	•	58·0†	•	3	0·46	− 0·11	2·1	—	13	—	Scarborough.
p York	68	26th	46	20th	63·1	50·1	56·2	− 3·7	99	0	•	•	58·5	−0·5	56·2	+0·1	1	0·09	− 0·49	4·3	− 1·3	27	− 8	York.
b, South .. a Spurn Head ..	61	20 21	51	20–26	58·4	51·0	54·4	− 5·2	87	0	•	•	•	•	•	•	3	0·09	− 0·31	2·3	—	14	—	Spurn Head.
a Lincoln	68	20, 26	46	21st	62·0	50·4	55·8	− 4·9	97	0	0	40	56·9	−3·4	55·0	−0·1	—	—	—	1·5	—	9	—	Hull.
a Fulbeck	70	20th	44	21st	62·6	49·1	55·4	− 5·0	94	0	•	•	58·3	−2·7	56·4	0·0	2	0·17	− 0·34	•	•	•	•	Lincoln.
3. ENGLAND, E.																								
p Cromer	63	21st	48	21st	59·3	51·0	54·9	− 5·5	90	0	0	33	59·5	−4·5	56·2	−1·7	3	0·14	− 0·39	3·2	—	20	—	Rauceby.
p Little Massingham ..	64	21st	47	21st	60·1	51·0	55·2	− 5·4	92	0	0	41	•	•	•	•	—	—	—	2·7	—	17	—	Skegness.
a, North .. a Yarmouth	64	24th	49	21st	61·6	51·9	56·4	− 4·1	101	0	•	•	60·4	−4·7	59·0	−1·9	—	—	—	3·8	—	24	—	Lowestoft.
a Norwich	64	21st	47	20, 21	61·1	50·5	55·4	− 5·2	94	0	0	41	60·2	•	•	•	4	0·31	—	3·0	—	19	—	Cromer.
p Geldeston	64	20th	46	21st	60·3	51·1	55·4	− 5·0	94	0	•	•	•	•	•	•	3	0·87	+ 0·25	1·9	− 4·5	12	−28	Lit. Massingham.
																	3	0·82	+ 0·27	4·1	—	26	—	Yarmouth.
																	3	0·73	—	2·9	—	19	—	Norwich.
																	4	0·80	+ 0·28	3·8	− 3·0	24	−19	Geldeston.
b, South .. p Cambridge	67	20th	47	21, 22	63·7	50·3	56·5	− 5·2	102	0	0	42	60·1	−3·1	58·2	−1·1	4	0·08	− 0·45	4·0	− 2·7	26	−17	Cambridge.
a Felixstowe ..	67	21, 24	47	21st	64·6	51·4	57·5	− 4·2	109	0	•	•	•	•	•	•	3	0·40	—	6·0	—	38	—	Felixstowe.
a Clacton-on-Sea ..	67	24th	47	21st	64·1	51·3	57·3	− 4·4	107	0	0	43	59·5	−1·4	58·7	−0·9	2	0·07	—	6·1	—	39	—	Clacton.
a Rothamsted	67	24th	45	21st	63·7	49·4	56·1	− 4·3	99	0	•	•	•	•	•	•	3	0·03	− 0·53	4·2	− 2·8	27	−18	Rothamsted.
a Shoeburyness	68	24th	47	21st	64·4	51·9	57·7	− 5·6	110	0	0	40	60·7	−5·6	•	•	2	0·06	− 0·33	5·7	—	37	—	Southend.
p Tottenham	70	24th	50	21st	65·3	52·3	58·4	− 4·9	115	0	0	46	•	•	60·0	−0·4	1	0·04	—	4·7	—	30	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	64	20, 26	46	20th	59·6	48·1	53·5	− 4·0	81	0	0	40	58·5	−2·7	54·9	−0·5	—	—	—	4·1	—	26	—	Huddersfield.
a Bawtry	70	26th	47	20, 21	63·4	49·7	56·1	− 4·1	99	0	0	42	56·4	−0·8	55·7	+0·4	2	0·24	− 0·31	4·0	—	25	—	Harrogate.
p Buxton	68	26th	44	20th	60·0	46·7	52·9	− 4·0	76	0	0	38	56·3	•	56·2	•	1	0·13	− 0·40	3·4	− 1·8	21	−12	Worksop.
a, East .. a Nottingham	70	26th	49	20, 21	62·6	51·0	56·4	− 4·2	101	0	0	41	56·4	−2·7	53·3	−0·5	1	0·07	− 0·34	5·2	—	33	—	Buxton.
p Birmingham, Edgbsn.	69	26th	48	20th	63·4	50·7	56·6	− 3·3	102	0	0	41	57·8	−3·8	57·2	−0·4	1	0·09	− 0·44	3·3	—	21	—	Nottingham.
a Raunds	69	20th	47	20, 21	64·6	50·1	56·9	− 4·3	104	0	0	41	54·1	−2·7	51·9	−0·8	1	0·06	− 0·46	4·0	—	26	—	Birmingham.
p Oxford	71	26th	49	21st	66·0	51·1	58·0	− 3·5	112	0	0	39	59·4	•	56·2	•	2	0·04	—	•	•	•	•	Raunds.
											0	42	•	•	•	•	1	0·02	− 0·51	5·2	− 1·3	33	− 8	Oxford.
											0	45	57·1	−2·2	54·7	+0·2	•	•	•	4·0	—	25	—	Sheffield.
b, West .. a Cheadle	70	25th	47	20, 26	64·6	48·9	56·2	− 2·0	99	0	0	43	•	•	•	•	1	0·11	− 0·55	•	•	•	•	Cheadle.
p Shrewsbury	73	26th	44	25th	66·9	50·1	57·9	− 1·6	111	0	0	37	•	•	•	•	2	0·08	—	•	•	•	•	Shrewsbury.
a Hereford	71	23rd	245	20th	68·3	49·1	58·0	− 2·4	112	0	0	38	•	•	•	•	1	0·11	− 0·40	•	•	•	•	Hereford.
a Cirencester	75	25th	48	20th	68·6	52·2	59·8	+ 0·4	125	0	0	44	59·4	•	57·0	•	1	0·01	− 0·59	6·5	+ 0·1	42	+ 1	Cirencester.
a Bath	73	23rd	46	20th	70·6	50·6	59·9	− 1·0	125	0	•	•	61·9	−2·1	59·1	−1·4	2	0·08	− 0·52	8·1	—	52	—	Bath.
5. ENGLAND, S.E.																								
p Kew	70	24th	48	21st	65·1	52·3	58·3	− 3·7	114	0	0	43	62·0	+0·3	59·3	−0·5	—	—	—	•	•	•	•	Canterbury.
a Marlborough	69	21, 24	43	20th	66·9	47·6	56·6	− 3·0	102	0	0	41	60·4	−2·1	57·5	−0·3	1	0·04	− 0·48	4·8	− 1·9	31	−12	Kew.
a Margate	66	20th	51	20th	63·7	55·0	59·1	− 2·9	130	0	0	38	—	—	56·7	—	0	0·00	− 0·54	6·7	+ 0·6	43	+ 4	Marlborough.
a Wisley, Surrey ..	70	24th	45	21st	65·3	51·3	57·8	− 4·7	111	0	0	45	59·5	−2·9	56·5	−2·1	3	0·26	− 0·19	3·5	− 3·2	22	−21	Margate.
											0	34	60·3	−2·7	58·2	−1·1	2	0·03	—	4·8	—	31	—	Wisley.
p Salisbury (Wilton) ..	74	25th	44	20th	70·6	48·6	58·8	− 3·1	118	0	0	43	62·2	−2·1	59·0	−0·7	—	—	—	6·4	—	42	—	Worthing.
a Tunbridge Wells ..											0	41	62·9	•	•	•	1	0·02	− 0·49	•	•	•	•	Salisbury.
a Dungeness	67	24th	47	21st	63·9	53·0	58·1	− 3·2	113	0	•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
p Hastings..	69	24th	49	23rd	64·9	52·6	58·3	− 2·9	114	0	0	46	61·8	•	59·3	•	0	0·00	− 0·40	4·9	—	31	—	Littlestone.
p Southampton	72	24, 25	50	20, 23	68·6	51·9	59·7	− 3·3	124	0	0	44	•	•	•	•	4	0·12	− 0·38	6·4	− 1·3	42	− 8	Hastings.
a Ventnor	69	24th	50	23rd	66·7	52·4	59·1	− 3·1	126	0	•	•	•	•	•	•	0	0·00	− 0·55	7·0	− 0·2	45	− 1	Southampton.
											•	•	•	•	•	•	0	0·00	− 0·47	8·0	+ 0·6	52	+ 6	Ventnor.
											0	46	62·1	−3·2	59·6	−1·4	—	—	—	7·1	—	46	—	Portsmouth.
											•	•	61·3	—	59·4	•	—	—	—	5·9	− 1·7	38	−10	Eastbourne.
											•	•	61·3	•	59·8	•	—	—	—	7·6	—	49	—	Bournemouth.
LONDON.																								
a Westminster	71	24th	49	21st	66·3	52·9	59·1	− 3·1	120	0	0	48	•	•	60·1	•	—	—	—	6·6	− 0·9	43	− 6	Brighton.
a Greenwich	71	24th	49	21st	66·1	51·9	58·5	− 3·8	118	0	0	47	•	•	•	•	1	0·03	− 0·48	4·1	− 1·7	26	−11	Westminster.
a Hampstead	68	24th	45	21st	63·9	49·6	56·3	—	100	0	0	40	•	•	•	•	1	0·05	− 0·48	4·3	− 3·3	28	−21	Greenwich.
a Camden Square ..	76	24th	48	21st	69·1	51·6	59·7	—	124	0	0	38	•	•	•	•	1	0·04	—	4·9	—	31	—	Hampstead.
											0	47	•	•	•	•	1	0·04	—	4·2	—	27	—	Camden Square.
6. a, SCOTLAND, W.																								
a Poltalloch .. S	74	26th	45	22nd	66·3	48·6	56·8	− 0·7	104	0	•	•	•	•	•	•	2	0·36	− 0·60	•	•	•	•	
p Glasgow .. .. S	74	23rd	46	22nd	65 9	49·3	57·0	− 0·3	105	0	0	34	•	•	•	•	2	0·19	− 0·56	8·6	+ 4·1	53	+25	Glasgow.
p Rothesay .. S	78	23rd	46	21st	68·7	50·0	58·7	+ 1·4	117	0	•	•	•	•	55·3	+0·3	2	0·48	− 0·49	•	•	•	•	
a Kilmarnock ..	74	26th	39	24th	66·7	43·3	54·2	− 3·4	85	0	•	•	•	•	•	•	2	0·41	—	7·8	—	48	—	Kilmarnock.
a Colmonell ..	72	26th	39	24th	65·1	44·9	54·3	− 2·9	86	0	0	37	•	•	•	•	2	0·21	− 0·58	•	•	•	•	
p Dumfries ..	74	26th	45	20, 24, 26	64·9	46·9	55·3	− 3·3	93	0	0	39	58·6	•	58·0	•	1	0·10	− 0·69	6·5	—	40	—	Dumfries.
p Cally, Gatehouse S	75	26th	42	23rd	66·7	46·0	55·6	− 2·0	95	0	•	•	•	•	•	•	1	0·13	− 0·77	•	•	•	•	
b I. OF MAN.																								
p Douglas	69	23, 26	49	20, 24	62·7	51·1	56·5	− 0·8	102	0	0	46	•	•	•	•	2	0·28	− 0·47	8·6	+ 2·4	54	+15	Douglas.
											0	35	57·0	−1·8	54·1	−0·7	—	—	—	6·7	—	42	—	Burnley.
7. a, ENGLAND, N.W.											0	40	•	•	•	•	—	—	—	7·2	—	45	—	Hoylake.
p Aspatria..	71	26th	43	22, 23	64·7	44·7	54·0	− 2·8	84	0	0	34	58·3	•	54·4	•	1	0·10	− 0·80	7·7	—	48	—	Aspatria
p Newton Rigg	74	26th	42	26th	66·3	45·6	55·2	− 1·5	92	0	0	38	59·9	−0·1	55·2	−0·4	1	0·04	− 0·68	7·2	+ 1·7	45	+11	Newton Rigg.
p Stonyhurst	71	26th	47	20th	65·9	50·0	57·4	− 0·5	108	0	0	37	•	•	•	•	1	0·21	− 0·72	6·5	+ 1·0	41	+ 6	Stonyhurst
p Blackpool	71	26th	48	25, 26	65·6	51·1	57·9	− 1·3	111	0	0	41	58·4	•	54·5	•	2	0·19	− 0·48	8·0	+ 2·2	50	+14	Blackpool.
p Manchester (Whit. Pk.)	72	26th	49	20th	64·9	51·1	57·5	− 2·2	109	0	•	•	•	•	•	•	2	0·13	− 0·47	5·8	+ 0·9	36	+ 5	Whit. Park.
a Liverpool (Bidston) ..	69	26th	51	21st	63·9	52·4	57·8	− 2·1	111	0	•	•	•	•	•	•	2	0·19	− 0·43	6·6	—	42	—	Liverpool.
a Hawarden Bridge ..	73	26th	53	20–23	65·9	53·4	59·2	− 1·0	120	0	0	41	62·5	−1·3	60·2	−0·5	2	0·15	− 0·35	7·3	+ 1·0	46	+ 6	Southport.
											0	42	59·9	−0·9	58·0	+0·2	—	—	—	6·3	—	33	—	Manchester (City)
b, NORTH WALES.																								
p Llandudno	68	26th	51	20, 25	64·4	52·9	58·3	− 1·6	114	0	•	•	•	•	•	•	2	0·44	− 0·10	8·0	+ 2·2	50	+14	Llandudno.
a Holyhead	68	26th	52	24th	63·1	53·6	58·0	− 0·5	112	0	•	•	•	•	•	•	2	0·55	− 0·05	8·7	—	55	—	Holyhead.
p Bettws-y-Coed ..										0	•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	8·7	—	55	—	Aberdovey.

For notes see also opposite page. † At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway used for this, and future reports.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from average.	Mean.	Difference from average								
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	•	•	•	8·1	—	52	—	Aberystwyth.
a Llangammarch Wells	72	26th	41	23rd	67·1	48·0	56·9	− 1·2	104	0	0	35	53·9	+0·8	54·7	+0·5	1	0·13	—	7·3	—	47	—	Llangammarch
a Pembroke	67	22nd	5[illegible]	23, 24, 26	64·0	52·1	57·6	− 0·8	109	0	•	•	•	•	•	•	1	0·12	− 0·46	9·2	+ 2·7	59	+17	Pembroke.[Wells
p Cardiff	74	23rd	49	20th	68·9	51·7	59·7	− 1·3	124	0	0	42	61·1	+0·5	58·0	−0·4	1	0·08	− 0·70	*8·9*	—	*57*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	73	23rd	52	23rd	70·4	53·4	61·3	− 0·6	135	0	0	49	•	•	•	•	1	0·14	− 0·53	*8·9*	—	*57*	—	*Clifton.*
a Shaftesbury	71	23rd	48	24–26	67·4	50·1	58·2	− 1·6	113	0	•	•	59·8	•	57·7	•	1	0·02	− 0·59	•	•	•	•	Shaftesbury.
a Arlington	70	26th	47	21, 23	66·3	49·7	57·4	− 0·9	108	0	•	•	•	•	•	•	1	0·16	− 0·80	•	•	•	•	Arlington.
a Newquay	*70*	*25th*	*47*	*23, 24*	*64·3*	*52·1*	*57·8*	− *2·5*	*111*	*0*	•	•	51·6	•	•	•	1	0·03	− 0·50	10·9	+ 4·1	71	+26	Newquay.
a Cullompton	77	23rd	44	23rd	72·3	51·4	61·1	+ 0·6	134	0	0	41	64·6	•	•	•	0	0·00	− 0·66	8·4	+ 2·4	55	+16	Cullompton.
a Portland	74	23rd	53	23–25	66·6	54·1	59·9	− 0·6	125	0	•	•	•	•	•	•	0	0·00	—	*8·5*	—	*55*	—	*Weymouth.*
p Plymouth	74	25th	50	21st	70·4	54·0	61·6	+ 0·4	137	0	0	45	64·7	−1·2	•	•	0	0·00	− 0·66	10·9	+ 4·2	71	+27	Plymouth.
p Falmouth	69	21-23	51	21st	66·4	55·0	60·3	+ 0·1	128	0	•	•	•	•	•	•	0	0·00	− 0·67	11·1	+ 3·8	72	+25	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	63	26th	50	21, 24	59·6	51·1	55·1	− 1·3	92	0	•	•	•	•	•	•	2	0·19	− 0·49	•	•	•	•	• •
a Blacksod Point ..	71	24th	48	20th	65·1	52·0	58·1	+ 0·4	113	0	•	•	•	•	•	•	2	0·21	− 0·55	•	•	•	•	• •
p Markree Castle ..	74	26th	38	23rd	68·6	45·6	56·3	− 0·6	100	0	0	31	60·7	•	55·2	•	1	0·14	− 0·66	8·6	+ 4·5	54	+28	Markree Castle.
a Birr Castle	74	23rd	43	23rd	68·9	46·9	57·1	− 1·5	106	0	•	•	•	•	•	•	2	0·16	− 0·54	*7·6*	+ *3·2*	*48*	+*20*	*Birr Castle.*
b, East .. { *p* Armagh	73	26th	43	23, 24	66·7	47·0	56·2	− 1·7	99	0	0	36	60·9	−0·7	56·6	−1·0	2	0·67	− 0·06	8·0	+ 3·6	50	+22	Armagh.
a Donaghadee	64	26th	50	20th	60·7	51·4	55·7	− 2·1	96	0	•	•	•	•	•	•	2	0·42	− 0·27	•	•	•	•	• •
											0	41	60·3	−0·7	56·9	−0·9	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	39					—	—	—	7·9	+ 2·6	50	+16	Phœnix Park.
a, East .. { *p* Dublin, City	71	23rd	48	23rd	66·0	51·4	58·2	− 2·1	113	0	0	45	•	•	•	•	2	0·09	− 0·51	•	•	•	•	Dublin City.
a Kilkenny	74	22, 26	42	20th	68·7	47·0	57·6	− 1·0	109	0	•	•	•	•	•	•	1	0·02	− 0·63	•	•	•	•	• •
a Waterford	77	23rd	44	23rd	70·1	49·9	59·3	− 0·4	121	0	•	•	•	•	•	•	0	0·00	− 0·78	•	•	•	•	• •
b, West .. { *a* Birr Castle	74	23rd	43	23rd	68·9	46·9	57·1	− 1·5	106	0	•	•	•	•	•	•	2	0·16	− 0·54	7·6	+ 3·2	48	+20	Birr Castle.
a Foynes	71	25, 26	43	20th	67·1	49·5	57·7	− 1·1	110	0	•	•	•	•	•	•	1	0·02	− 0·73	•	•	•	•	• •
a Cahir	77	23rd	40	23rd	71·6	45·3	57·5	− 1·4	109	0	•	•	•	•	•	•	1	0·04	—	•	•	•	•	• •
a Killarney	79	26th	46	21, 23	73·9	48·9	60·5	+ 2·0	130	0	•	•	•	•	•	•	1	0·04	− 0·78	•	•	•	•	• •
a Valencia	74	25th	47	23rd	67·3	50·7	58·4	− 0·3	115	0	•	•	•	•	•	•	2	0·04	− 0·89	9·8	+ 4·9	62	+32	Valencia.
a Roche's Point	68	23rd	49	21, 23	65·6	50·9	57·7	− 1·7	110	0	•	•	•	•	•	•	2	0·05	− 0·64	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	65	22-26	52	21st	64·6	54·9	59·4	− 1·3	122	0	•	•	•	•	•	•	1	0·04	− 0·50	9·6	+ 2·5	62	+17	Scilly.
a Jersey, St. Aubins ..	71	24th	51	21st	67·9	55·1	61·1	− 1·4	134	0	•	•	•	•	•	•	0	0·00	− 0·50	10·3	+ 2·3	67	+15	St. Heliers.
a Guernsey (Villa Carey)	69	23rd	52	21st	66·6	54·4	60·1	− 1·2	127	0	0	44	62·2	−1·6	59·9	−0·6	0	0·00	− 0·51	9·8	+ 1·5	64	+10	Guernsey.*

Additional Sunshine Means:—*Bognor, 6·3 hrs. 41 %; Ramsgate, 5·3 hrs. 34 %; Rhyl, 7·8 hrs. 49 %; Salcombe, 11·1 hrs. 72 %; Tenby, 9·8 hrs. (+3·2) 63 % (+21); Torquay, 10·1 hrs. (+3·1) 66 % (+20).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, July 26th.

Taken daily at or about sunrise and at 4 p.m.

District.	Station.	Highest.	Lowest.	Mean.	Difference from Average.	District.	Station.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	—	—	—	—	SCOTLAND, W. ..	{ Lamlash	62	55	57·2	+1·4
	{ Kirkwall	—	—	—	—		{ Ballantrae	59	56	57·8	+2·2
	{ Wick	54	52	53·2	+0·7	ENGLAND, N.W. ..	Port Erin	58	54	55·4	−0·1
SCOTLAND, E. ..	{ Cromarty	58	55	56·6	+0·5	ENGLAND, S.W. ..	{ Newquay	59	59	59·0	−2·2
	{ Pennan Bay	58	56	56·5	+0·3		{ Scilly	61	59	60·0	—
	{ Aberdeen, Cove Bay	55	54	54·6	+0·2		{ Plymouth‡	60	60	60·0	−0·3
ENGLAND, N.E. ..	{ Burnmouth, Berwick	54	51	52·7	−1·4		{ Salcombe	63	59	60·4	+2·3
	{ Scarborough	56	51	53·1	−3·2	IRELAND, N.W. ..	{ Sheephaven	59	57	58·1	−0·3
ENGLAND, E. ..	Shipwash Lightship	62	58	59·7	−1·2		{ Teelin	58	57	57·6	−1·6
ENGLAND, S.E. ..	Eastbourne‡	62	61	61·7	−1·4	IRELAND, S.W. ..	{ Cleggan	65	56	59·5	+2·2
							{ Seafield	65	61	62·9	+2·1
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTIETH WEEK—July 20th to July 26th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	78	38	61·6	47·2	53·9	− 1·2	83	− 9	0	0	1	− 3	0·01	−0·78	8·0	+4·1	48	+25
Eastern.																		
1. SCOTLAND, EAST ...	74	31	62·2	46·5	53·8	− 3·0	83	− 21	0	0	1	− 3	0·02	−0·64	5·5	+0·5	34	+ 3
2. ENGLAND, N.E.	70	44	60·1	49·7	54·5	− 4·2	88	− 29	0	0	2	− 2	0·13	−0·53	2·8	−2·8	17	−18
3. ENGLAND, EAST ...	70	45	62·1	51·0	56·2	− 4·5	99	− 32	0	0	3	− 1	0·42	−0·15	4·0	−2·3	25	−14
4. MIDLAND COUNTIES ...	75	44	65·3	50·1	57·2	− 2·8	106	− 20	0	0	1	− 3	0·09	−0·53	4·8	−0·7	31	− 5
5. ENGLAND, S.E.	74	43	66·2	51·6	58·4	− 3·2	115	− 22	0	0	1	− 2	0·05	−0·51	5·8	−0·7	37	− 4
Western.																		
6. SCOTLAND, WEST ...	78	39	65·9	47·5	56·1	− 1·3	99	− 9	0	0	2	− 2	0·27	−0·51	8·6	+3·3	53	+20
7. ENGLAND, N.W.	74	42	65·0	50·5	57·3	− 1·7	107	− 12	0	0	2	− 2	0·23	−0·55	7·6	+2·2	48	+14
8. ENGLAND, S.W.	77	41	68·0	52·0	59·4	− 0·6	122	− 4	0	0	1	− 2	0·07	−0·69	9·4	+3·5	60	+22
9. IRELAND, NORTH ...	74	38	64·9	49·0	56·4	− 1·1	101	− 7	0	0	2	− 2	0·30	−0·48	8·3	+4·0	52	+25
10. IRELAND, SOUTH ...	79	40	68·9	48·9	58·2	− 1·0	113	− 8	0	0	1	− 2	0·05	−0·69	8·4	+3·6	54	+23
11. ENGLISH CHANNEL ...	71	51	66·4	54·8	60·2	− 1·4	127	− 10	0	0	1	− 2	0·01	−0·55	9·9	+2·5	65	+16

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 8 Weeks, June 1st to July 26th, 1913.

0. SCOTLAND, NORTH ...	78	33	*	*	*	*	655	− 11	0	− 2	28	− 4	5·27	−0·48	4·5	−0·2	26	− 1
Eastern.																		
1. SCOTLAND, EAST ...	80	31	*	*	*	*	719	− 34	0	− 1	24	− 4	2·98	−1·79	5·3	−0·3	31	− 2
2. ENGLAND, N.E.	82	37	*	*	*	*	791	− 51	0	0	23	− 2	1·86	−1·99	4·9	−1·4	30	− 8
3. ENGLAND, EAST ...	84	38	*	*	*	*	861	− 87	0	0	23	− 1	2·74	−1·22	5·1	−1·7	32	−11
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	863	− 67	0	0	20	− 4	1·81	−2·26	4·7	−1·5	29	− 9
5. ENGLAND, S.E.	84	38	*	*	*	*	900	− 94	0	0	18	− 4	2·15	−1·57	5·5	−1·5	34	−10
Western.																		
6. SCOTLAND, WEST ...	78	38	*	*	*	*	758	− 46	0	0	28	− 1	4·17	−1·73	5·9	−0·1	35	− 1
7. ENGLAND, N.W.	78	36	*	*	*	*	807	− 70	0	0	26	− 1	3·92	−0·87	5·5	−0·7	33	− 5
8. ENGLAND, S.W.	83	34	*	*	*	*	850	− 75	0	0	20	− 6	2·10	−2·67	6·2	−0·5	39	− 3
9. IRELAND, NORTH ...	75	35	*	*	*	*	704	−104	0	0	31	− 2	4·71	−0·69	4·5	−0·5	27	− 3
10. IRELAND, SOUTH ...	79	38	*	*	*	*	796	− 99	0	0	28	0	3·61	−1·48	5·3	−0·3	33	− 2
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	890	− 98	0	0	20	− 6	1·29	−2·47	6·9	−1·1	44	− 7

THE YEAR.—Aggregates, &c., for the Period of 30 Weeks, December 29th, 1912, to July 26th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,060	− 54	424	−133	134	− 2	26·96	+0·37	3·2	−0·4	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,164	−120	601	− 19	116	+ 4	16·21	+0·18	3·7	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	1,376	− 18	406	− 69	109	+ 7	13·15	+0·82	3·6	−0·9	27	− 7
3. ENGLAND, EAST ...	84	20	*	*	*	*	1,641	+ 2	303	−218	104	+ 5	12·10	−0·18	4·0	−0·8	31	− 6
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	1,573	− 76	392	−141	107	+ 9	15·60	+1·82	3·5	−0·8	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	1,707	− 54	221	−160	100	+ 7	14·43	+1·10	4·3	−0·5	33	− 5
Western.																		
6. SCOTLAND, WEST ...	78	17	*	*	*	*	1,325	− 71	323	−102	128	+10	25·12	+1·40	3·6	−0·7	28	− 5
7. ENGLAND, N.W.	78	10	*	*	*	*	1,429	− 72	298	− 88	122	+14	20·21	+3·13	3·8	−0·6	29	− 5
8. ENGLAND, S.W.	83	19	*	*	*	*	1,601	− 89	221	− 80	120	+14	22·58	+3·73	4·2	−0·6	32	− 5
9. IRELAND, NORTH ...	75	21	*	*	*	*	1,336	−132	297	− 48	141	+13	22·88	+3·52	3·5	−0·5	27	− 4
10. IRELAND, SOUTH ...	79	22	*	*	*	*	1,569	−145	243	− 16	140	+26	26·02	+5·41	3·9	−0·6	30	− 5
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	1,848	− 59	38	− 71	115	+ 2	16·12	+0·44	4·7	−1·0	36	− 9

M.O., July 30, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 121

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 31. THIRTY-FIRST WEEK, SUNDAY, JULY 27TH, TO SATURDAY, AUGUST 2ND, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. In all parts of the Kingdom the conditions were very dry, but in the northern and eastern districts the sky was occasionally very cloudy. A severe thunderstorm, accompanied by unusually heavy rain, was experienced in the Channel Islands on July 29th, and distant thunder was heard at Douglas (Isle of Man) on the 29th and 30th.

Temperature was above the average except in England East, South-East and North-East, the greatest difference being 3°·1 in Scotland North. The highest of the maxima occurred on rather irregular dates, and ranged from 82° in England South-East and 81° in England North-East and South-West to 77° in Ireland North, and 75° in Scotland North, England East and the English Channel. The lowest of the minima, which were mostly recorded early in the week, varied from 39° in Scotland East and 40° in England North-East to 45° in Scotland North and England East and to 55° in the English Channel. The lowest grass readings were 34° at West Linton, 35° at Crathes, Birmingham and Wisley, and 36° at Shrewsbury. The temperature of the soil was below the average at depths both of 1 foot and of 4 feet in almost all parts of the Kingdom.

Mean Temperature of the Sea was above the normal except on the north-east, east and south-east coasts of England, at Newquay and Port Erin, the excess being about 3°·5 on the west coast of Scotland, and the deficit nearly 4° at Scarborough. Along the east coast of England the water was about 4° colder than during the corresponding week of last year, on the west coast of Scotland about 4° warmer, and at Teelin and Seafield more than 5° warmer.

Rainfall. Over the Kingdom generally the week was rainless, but at Guernsey more than 2 in. fell during the severe thunderstorm during the night between the 29th and 30th. At Jersey, where the thunderstorm was also experienced, the rainfall was only 0·06 in.

Bright Sunshine exceeded the normal except in Scotland North and East, England East and the English Channel. In Scotland North the mean daily duration was only 2·5 hours and the percentage of the possible duration only 16, while in England North-West the corresponding figures were 8·5 hours and 54, and in England South-West 8·9 hours and 58.

Barometer and Wind. As a whole the pressure distribution was anticyclonic, and the wind light or moderate from between North and North East or East. In Scotland, however, owing to depressions moving eastward beyond Iceland, a light Westerly breeze prevailed at times. The only cyclonic disturbance in the immediate neighbourhood of this country was a shallow one that came up from the Bay region on Tuesday night and subsequently travelled away over France. This system had little effect either on the weather or the direction and force of the wind except in the Channel Islands and their vicinity.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 123.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Moderate	Deficient	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate
	Rainfall ...	Very light	Very light	Very light	Very light	Very light	Very light	Very light	Very light	Very light	Very light	Very light	Heavy
	Sunshine ...	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Very abundant	Abundant	Very abundant	Very abundant	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 9 weeks from June 1st, 1913.	Warmth ...	3 * 2	1 * 3	2 * 4	2 * 4	1 * 4	1 * 5	2 * 3	2 * 4	2 * 4	1 * 4	1 * 4	0 * 5
	Rainfall ...	2 * 5	1 * 6	0 * 7	1 * 2	0 * 6	1 * 5	2 * 4	2 * 5	1 * 7	1 * 5	2 * 5	1 * 4
	Sunshine ...	3 * 4	3 * 3	2 * 5	1 * 5	1 * 5	1 * 5	2 * 4	3 * 4	2 * 3	3 * 5	3 * 3	2 * 6

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(31182—24.) Wt. 196—786. 450. 8/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*60*	*1, 2*	*48*	*1st*	*58·1*	*50·7*	*54·1*	–	*85*	*0*			55·4				*4*	*0·27*	–	*1·6*	–	*10*	–	*Baltasound.*
a, Islands .. *a* Lerwick	61	30, 1	47	27th	58·4	51·0	54·4	+ 2·1	87	0							4	0·15	–	0·8	– 3·4	5	– 21	Deerness.
a Stornoway	66	1st	47	1st	62·6	52·0	56·9	+ 2·8	104	0							1	0·01	– 0·82	1·4	– 3·1	9	– 19	Stornoway.
a Castlebay, Barra Isd.‡..	*62*	*31st*	*52*	*1st*	*60·1*	*53·6*	*56·6*	*+ 2·1*	*102*	*0*							*1*	*0·01*	–	*3·5*	–	*22*	–	*Castlebay.*
a Wick	70	2nd	50	27, 28	60·9	51·9	56·1	+ 1·7	99	0							0	0·00	– 0·65	*	*	*	*	
b, Mainland. *p* Strathpeffer ..	75	27th	49	27th	70·6	53·0	61·2	+ 5·5	134	0							0	0·00	– 0·61	3·6	– 0·4	22	– 3	Strathpeffer.
p Glencarron ..	71	30th	45	27th	65·0	50·3	57·4	+ 3·6	108	0							1	0·04	– 1·40	*	*	*	*	
p Fort Augustus..	74	27th	48	27th	68·4	54·1	60·8	+ 4·9	132	0							0	0·00	– 0·75	4·4	+ 1·3	27	+ 8	Fort Augustus.
p Fort William ..	74	30th	48	27th	70·0	52·3	60·5	+ 4·1	130	0							1	0·02	– 1·28	*	*	*	*	
1. SCOTLAND, E.																								
p Gordon Castle.. S	74	30th	40	27th	68·1	49·7	58·3	+ 1·8	114	0	0	35	59·8	+0·8	54·9	-0·2	–	–	–	4·2	–	26	–	Crathes S.
a Nairn	73	2nd	44	27th	67·6	48·6	57·4	+ 1·0	108	0							0	0·00	– 0·80	*4·5*	–	*28*	–	*Gordon Castle.*
a Aberdeen ..	76	2nd	49	29, 31	67·0	51·9	58·9	+ 2·7	118	0					53·6	-0·1	0	0·00	– 0·56	4·5	–	28	–	Nairn.
a Balmoral ..	77	28, 30, 2	40	27th	75·6	46·7	60·1	+ 6·4	127	0	0	37					0	0·00	– 0·64	4·9	– 0·2	30	– 1	Aberdeen.
p Crieff .. .. S	80	2nd	48	27th	72·3	51·4	61·1	+ 3·5	134	0							0	0·00	– 0·73	*	*	*	*	Balmoral.
a Leith .. .. S	77	2nd	48	27th	66·0	53·0	59·1	+ 0·9	120	0							0	0·00	– 0·81	5·3	–	33	–	Balruddery.
p West Linton .. S	73	29, 2	39	27th	69·3	46·4	57·1	+ 2·0	106	0	0	34					0	0·00	– 0·63	*	*	*	*	
p Marchmont .. S	77	2nd	46	27th	68·0	48·7	57·7	+ 1·6	110	0	0	45	59·4	+0·7			1	0·01	–	*5·8*	–	*37*	–	*West Linton.*
																	1	0·02	– 0·75	5·9	+ 0·8	37	+ 5	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	73	2nd	43	28th	64·9	47·6	55·7	- 1·3	96	0	0	40	57·9	-1·1	54·7	-1·0	0	0·00	– 0·65	6·7	–	42	–	Cockle Park.
a Shields	70	2nd	49	29th	62·1	50·9	56·1	- 1·6	99	0							0	0·00	– 0·60	*	*	*	*	
p Durham	81	2nd	45	2nd	67·9	49·1	57·9	- 0·3	111	0	0	44					0	0·00	– 0·62	5·8	+ 0·7	37	+ 4	Durham.
a, North .. *p* Rounton	76	29, 2	40	28th	68·7	48·3	57·8	+ 0·2	111	0	0	38	58·5				0	0·00	– 0·65	*	*	*	*	Rounton.
a West Witton	*79*	*2nd*	*45*	*2nd*	*69·4*	*48·9*	*58·4*	–	*115*	*0*	0	40	59·2		53·9		*0*	*0·00*	–	*	*	*	*	*West Witton.*
p Scarborough	69	2nd	48	28th	63·3	52·3	57·4	- 1·1	108	0					58·0†		1	0·02	– 0·56	7·6	–	49	–	Scarborough.
p York	78	2nd	46	2nd	70·7	51·3	60·3	+ 0·9	128	0			59·3	-0·5	56·2	-0·3	0	0·00	– 0·58	5·3	– 0·1	34	– 1	York.
											0	41	57·7	-3·3	55·0	-0·5	–	–	–	*3·7*	–	*24*	–	*Hull.*
a Spurn Head	66	1st	49	28th	61·7	52·1	56·6	- 2·8	102	0							0	0·00	– 0·43	*6·0*	–	*39*	–	*Spurn Head.*
b, South .. *a* Lincoln	75	29, 2	46	28th	69·4	51·0	59·6	- 0·5	123	0			61·1	-0·9	56·2	-0·9	0	0·00	– 0·53	*	*	*	*	Lincoln.
a Fulbeck	75	29th	44	2nd	68·7	49·9	58·7	- 1·4	117	0	0	37	60·9	-3·5	56·2	-2·1	0	0·00	– 0·54	4·1	–	27	–	Rauceby.
											0	51	62·7	-1·7	58·8	-1·0	–	–	–	5·5	–	36	–	Skegness.
3. ENGLAND, E.																				*6·9*	–	*45*	–	*Lowestoft.*
p Cromer	64	30-2	50	28th	62·1	52·4	56·9	- 3·3	104	0							–	–	–	5·6	–	36	–	Cromer.
p Little Massingham ..	70	28, 30, 2	48	29, 30	66·9	49·9	57·8	- 2·4	111	0	0	43					0	0·00	–	4·8	– 1·4	31	9	Lit. Massingham.
a, North .. *a* Yarmouth	66	1st	52	28th	62·9	54·9	58·6	- 1·8	116	0			62·7	-3·7	59·0	-2·6	0	0·00	– 0·54	7·3	–	47	–	Yarmouth.
a Norwich	67	28, 31, 2	49	29th	64·9	51·9	58·0	- 2·4	112	0	0	42	61·3				0	0·00	–	*5·3*	–	*34*	–	*Norwich.*
p Geldeston	68	31st	51	28 29, 2	64·7	52·1	58·0	- 1·9	112	0							0	0·00	– 0·51	5·8	- 0·9	38	– 5	Geldeston.
p Cambridge	74	28, 29	45	2nd	70·3	50·9	59·9	- 1·1	125	0	0	41	61·3	-2·6	58·2	-1·7	0	0·00	– 0·53	5·4	– 1·1	35	– 7	Cambridge.
a Felixstowe	*66*	*31st*	*48*	*29th*	*62·4*	*53·6*	*57·7*	*- 3·6*	*110*	*0*							*0*	*0·00*	–	*7·0*	–	*46*	–	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	67	31st	50	29th	63·3	53·9	58·3	- 3·0	114	0	0	42	60·2	-1·1	58·8	-1·3	0	0·00	–	6·0	–	39	–	Clacton.
a Rothamsted	74	29th	47	2nd	69·1	50·7	59·3	- 0·6	121	0	0	*					0	0·00	– 0·56	5·4	– 1·4	35	– 9	Rothamsted.
a Shoeburyness	*67*	*31st*	*48*	*29th*	*62·9*	*53·0*	*57·6*	*- 5·1*	*109*	*0*	0	40	62·4	-4·6	*	*	*0*	*0·00*	– 0·39	*4·8*	–	*31*	–	*Southend.*
p Tottenham	75	28, 31	52	27, 29	69·7	53·4	61·0	- 1·2	133	0	0	47	*	*	60·0	-1·0	0	0·00	–	6·4	–	35	–	Tottenham.
											0	41	60·8	-1·3	55·1	-0·9	–	–	–	*6·2*	–	*40*	–	*Huddersfield.*
4. MIDLAND COUNTIES.											0	40	57·7	0·0	55·7	0·0	1	0·02	– 0·56	6·0	–	39	–	Harrogate.
a Harrogate	75	2nd	47	27, 28, 2	67·7	49·0	57·7	+ 0·1	110	0	0	38	60·1	*	56·3	*	0	0·00	– 0·54	4·9	– 0·2	32	– 1	Worksop.
a Bawtry	79	29th	42	2nd	72·0	48·4	59·4	- 0·3	122	0	0	41	58·2	-1·7	53·6	-0·6	*0*	*0·00*	– *0·96*	*6·8*	–	*44*	–	*Buxton.*
a Buxton	*74*	*29th*	*41*	*2nd*	*69·0*	*46·9*	*57·2*	*+ 0·5*	*106*	*0*	0	40	59·5	-2·8	57·2	-1·4	0	0·00	– 0·54	4·6	–	30	–	Nottingham.
a, East .. *a* Nottingham	78	29th	44	2nd	70·1	49·3	59·0	- 1·1	119	0	0	35	56·3	-1·0	52·2	-1·0	0	0·00	– 0·55	5·4	–	35	–	Birmingham.
p Birmingham, Edgbsn.	76	29th	49	27th	70·7	51·7	60·5	+ 1·3	130	0	0	38	60·1	*	56·4	*	0	0·00	–	*	*	*	*	Raunds.
a Raunds	77	29th	46	2nd	70·0	50·3	59·5	- 1·4	123	0	0	43	*	*	*	*	0	0·00	– 0·53	5·7	– 0·6	37	– 4	Oxford.
p Oxford	78	28, 29	47	2nd	72·1	51·9	61·3	+ 0·1	135	0	0	42	57·7	-2·5	54·7	-0·6	–	–	–	3·7	–	24	–	Sheffield.
a Cheadle	74	27, 28	43	27th	70·7	50·9	60·1	+ 2·4	127	0	0	42	*	*	*	*	0	0·00	– 0·70	*	*	*	*	Cheadle.
p Shrewsbury	78	29th	45	28, 2	74·6	49·3	61·1	+ 1·9	134	0	0	36	*	*	*	*	0	0·00	–	*	*	*	*	Shrewsbury.
b, West .. *a* Hereford	79	29th	44	2nd	75·9	49·4	60·8	+ 0·8	132	0	0	38	*	*	*	*	0	0·00	– 0·53	*	*	*	*	Hereford.
a Cirencester	79	29th	51	2nd	72·3	55·0	63·1	+ 4·2	148	0	0	46	1·3	*	57·5	*	0	0·00	– 0·63	7·8	+ 1·5	51	+10	Cirencester.
a Bath	80	28th	48	28th	74·3	52·4	62·6	+ 2·2	144	0	*	*	6·0	*	*	*	0	0·00	– 0·60	7·2	–	47	–	Bath.
5. ENGLAND, S.E.																								
p Kew	74	28, 31	52	2nd	69·9	54·6	61·7	+ 0·2	138	0	0	39	62·4	-0·4	59·0	-1·8	–	–	–	*	*	*	*	Canterbury.
a Marlborough	82	28th	41	2nd	71·6	47·7	58·8	- 0·6	118	0	0	44	61·1	-1·9	57·6	-0·8	0	0·00	– 0·51	5·4	– 1·1	35	– 7	Kew.
a Margate	64	30th	51	29th	61·9	56·1	58·8	- 3·2	118	0	0	37	—	—	56·9	—	0	0·00	– 0·54	6·8	+ 0·8	44	+ 5	Marlborough.
a Wisley, Surrey ..	75	28, 29	45	2nd	70·0	51·7	60·2	- 1·7	127	0	0	42	59·2	-4·0	56·5	-2·7	0	0·00	– 0·45	3·3	– 3·3	22	-22	Margate.
											0	35	61·7	-1·9	58·2	-1·8	0	0·00	–	5·4	–	35	–	Wisley.
p Salisbury (Wilton) ..	80	28th	46	2nd	74·6	49·6	61·2	- 0·1	134	0	0	49	63·9	-1·1	59·5	-0·8	–	–	–	8·7	–	58	–	Worthing.
a Tunbridge Wells ..											0	45	64·8	*	*	*	0	0·00	– 0·53	*	*	*	*	Salisbury.
a Dungeness	70	31st	49	29th	65·0	56·6	60·5	- 0·6	130	0	*	*	*	*	*	*	–	–	–	*	*	*	*	Tunbridge Wells.
p Hastings.. ..	76	31st	49	29th	68·1	53·7	60·4	- 0·9	129	0	0	46	63·0	*	59·5	*	0	0·00	– 0·42	6·5	–	43	–	Littlestone.
p Southampton	76	31st	51	2nd	72·0	54·0	62·4	- 0·1	143	0	0	48	*	*	*	*	0	0·00	– 0·53	*8·7*	+ *1·2*	*58*	+ *8*	*Hastings.*
a Ventnor	73	31st	55	29, 1, 2	67·7	55·7	61·3	- 1·0	135	0	0	47	*	*	*	*	0	0·00	– 0·56	8·3	+ 1·2	55	+ 8	Southampton.
											0	47	64·4	-1·6	60·2	-1·4	0	0·00	– 0·47	7·8	+ 0·9	52	+ 6	Ventnor.
											*	*	62·5	*	59·4	*	–	–	–	*9·7*	–	*64*	–	*Portsmouth.*
LONDON.											*	*	62·3	*	60·9	*	–	–	–	8·8	+ 1·4	58	+10	Eastbourne.
a Westminster	*75*	*28th*	*54*	*27, 29*	*70·3*	*55·3*	*62·3*	*+ 0·5*	*142*	*0*	*	*	*	*	*	*	–	–	–	7·7	–	*51*	–	*Bournemouth.*
a Greenwich	*75*	*31st*	*50*	*29th*	*70·1*	*52·6*	*60·7*	*- 2·4*	*131*	*0*	0	48	*	*	*	*	*	*	*	*	*	*	*	*Brighton.*
a Hampstead	*73*	*28th*	*50*	*27th*	*68·0*	*51·9*	*59·4*	—	*122*	*0*	0	41	*	*	*	*	*0*	*0·00*	– *0·52*	*5·3*	– *0·4*	*35*	– *1*	*Westminster.*
a Camden Square ..	*79*	*28, 31*	*52*	*2nd*	*74·0*	*53·6*	*63·1*	—	*148*	*0*	0	43	*	*	*	*	*0*	*0·00*	– *0·52*	*5·8*	– *1·7*	*38*	– *11*	*Greenwich.*
											0	49	*	*	*	*	*0*	*0·00*	–	*5·7*	–	*37*	–	*Hampstead.*
																				5·4	–	*35*	–	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	68	31, 1	46	2nd	67·0	49·7	57·8	+ 0·5	111	0	*	*	*	*	*	*	0	0·00	– 0·99	*	*	*	*	
p Glasgow	73	27th	50	27th	69·4	52·6	60·4	+ 3·5	129	0	0	39	*	*	*	*	0	0·00	– 0·81	5·0	+ 0·6	31	+ 3	Glasgow.
p Rothesay .. S	74	2nd	48	1st	70·6	52·7	61·0	+ 3·8	133	0	*	*	*	*	55·5	+0·6	0	0·00	– 1·01	*	*	*	*	
a Kilmarnock ..	74	29, 30	41	27th	69·9	48·0	58·2	+ 0·8	113	0	*	*	*	*	*	*	0	0·00	–	*6·2*	–	*39*	–	*Kilmarnock.*
a Colmonell ..	71	2nd	43	27th	67·7	47·4	56·8	- 0·4	104	0	0	41	*	*	*	*	0	0·00	– 0·83	*	*	*	*	
p Dumfries ..	78	29th	46	27th	73·1	51·1	61·3	+ 3·1	135	0	0	41	62·4	*	58·5	*	0	0·00	– 0·80	*6·7*	–	*43*	–	*Dumfries.*
p Cally, Gatehouse	76	27th	44	28th	72·1	47·9	59·2	+ 2·2	120	0	*	*	*	*	*	*	0	0·00	– 0·96	*	*	*	*	
b I. OF MAN.																								
p Douglas	69	27, 30, 2	50	2nd	66·6	52·3	59·0	+ 2·0	119	0	0	46	*	*	*	*	0	0·00	– 0·82	6·6	+ 0·6	42	+ 4	Douglas.
7. *a*, ENGLAND, N.W.											0	39	59·0	-0·4	54·7	-0·5	–	–	–	*7·2*	–	*46*	–	*Burnley.*
a Aspatria	74	2nd	44	27th	70·4	50·7	59·9	+ 3·2	125	0	0	38	*	*	*	*	–	–	–	7·6	–	49	–	Hoylake.
p Newton Rigg ..	77	29, 2	41	27th	73·7	46·3	59·0	+ 2·5	119	0	0	42	61·1	*	54·7	*	0	0·00	– 0·93	7·3	–	47	–	Aspatria
p Stonyhurst	73	27, 2	49	2nd	69·0	51·3	59·5	+ 1·6	123	0	0	40	62·4	+2·1	55·9	-0·1	0	0·00	– 0·73	7·4	+ 2·1	47	+13	Newton Rigg.
p Blackpool	72	30th	48	27th	68·0	52·3	59·6	+ 0·7	123	0	0	39	*	*	*	*	0	0·00	– 1·00	7·8	+ 2·5	50	+16	Stonyhurst.
p Manchester (Whit. Pk.)	77	29th	49	27th	72·6	53·0	62·1	+ 3·6	141	0	0	42	59·3	*	54·7	*	0	0·00	– 0·73	9·1	+ 3·4	58	+22	Blackpool.
a Liverpool (Bidston) ..	71	30, 31	50	27th	68·3	53·7	60·5	+ 1·3	130	0	*	*	*	*	*	*	0	0·00	– 0·62	*8·2*	+ *3·5*	*53*	+*23*	*Whit. Park.*
a Hawarden Bridge ..	74	27th	49	29th	70·1	52·6	60·7	+ 0·6	131	0	0	42	63·9	0·0	60·6	-0·4	0	0·00‡	– 0·57	*8·1*	+ *2·1*	*52*	+*13*	*Southport.*
b, NORTH WALES.											0	43	62·0	+0·6	58·3	-0·1	–	–	–	*6·3*	–	*40*	–	*Manchester (City)*
p Llandudno	71	30th	50	29th	68·1	53·3	60·2	+ 0·7	127	0	*	*	*	*	*	*	1	0·02	– 0·55	8·7	+ 3·0	57	+20	Llandudno.
a Holyhead	70	30th	54	28th	66·4	55·4	60·5	+ 2·3	130	0	*	*	*	*	*	*	0	0·00	– 0·63	*8·8*	–	*56*	–	*Holyhead.*
p Bettws-y-Coed ..	78	1st	46	28, 29	73·4	47·7	59·7	+ 0·8	124	0	0	45	59·1	+0·7	55·0	0·0	0	0·00	–	8·7	–	57	*	Bettws-y-Coed.
											*	*	*	*	*	*	–	–	–	11·0	–	71	–	Aberdovey.

For notes see also opposite page.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				10·3	—	67	—	Aberystwyth.
a Llangammarch Wells	76	28, 29, 2	41	2nd	73·3	45·9	58·6	+ 1·0	116	0	0	37	61·0	+2·4	55·2	+0·1	0	0·00	—	8·5	—	56	—	Llangammarch
a Pembroke	71	29, 31, 2	53	28, 29	68·3	54·7	61·0	+ 2·5	133	0	*	*	*	*	*	*	0	0·00	—	9·6	+ 3·2	63	+21	Pembroke.[Wells
p Cardiff	76	28, 29	49	27th	72·1	53·1	61·9	+ 1·3	139	0	0	45	62·9	+1·2	58·1	−0·7	0	0·00	− 0·85	*9·6*	—	*63*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	80	28th	52	27th	73·7	54·9	63·7	+ 2·1	152	0	0	47	*	*	*	*	0	0·00	− 0·70	*8·3*	—	*54*	—	*Clifton.*
a Shaftesbury	76	28th	—	—	70·9	—	—	—	—	—	*	*	61·5	*	58·4	*	0	0·00	− 0·63	*	*	*	*	Shaftesbury.
a Arlington	74	29th	49	28th	71·1	52·1	60·9	+ 2·8	132	0	*	*	*	*	*	*	0	0·00	− 1·00	*	*	*	*	Arlington.
a Newquay	*73*	*29th*	*46*	*28th*	*67·9*	*52·6*	*59·7*	− *0·9*	*134*	*0*	*	*	63·4	*	*	*	*1*	*0·01*	− 0·51	8·6	+ 1·8	57	+12	Newquay.
a Cullompton	81	28th	47	28, 29	75·0	51·7	62·5	+ 2·4	144	0	0	43	67·0	*	*	*	1	0·06	− 0·61	7·5	+ 1·5	50	+10	Cullompton.
a Portland	73	31st	54	28, 29	66·0	55·1	60·2	− 0·3	127	0	*	*	*	*	*	*	0	0·00	—	*6·7*	—	*44*	—	*Weymouth.*
p Plymouth	76	1st	52	28, 29	70·9	55·6	62·7	+ 1·7	145	0	0	45	65·9	−0·1	*	*	2	0·15	− 0·49	8·6	+ 2·0	57	+13	Plymouth.
p Falmouth	71	1st	55	28th	66·7	56·7	61·4	+ 1·2	136	0	*	*	*	*	*	*	2	0·04	− 0·66	8·9	+ 1·7	59	+12	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	67	1st	53	27, 29, 2	62·3	53·4	57·5	+ 1·1	109	0	*	*	*	*	*	*	0	0·00	− 0·73	*	*	*	*	
a Blacksod Point ..	69	2nd	49	2nd	64·6	54·4	59·1	+ 1·5	120	0	*	*	*	*	*	*	1	0·07	− 0·80	*	*	*	*	
p Markree Castle ..	71	1, 2	44	28,30	67·7	47·1	56·7	0·0	103	0	0	37	61·9	*	56·1	*	0	0·00	− 0·87	7·8	+ 3·7	50	+23	Markree Castle.
a Birr Castle	77	2nd	44	27, 28	71·6	49·3	59·7	+ 1·5	124	0	*	*	*	*	*	*	0	0·00	− 0·76	*6·8*	+ *3·3*	*44*	+*15*	*Birr Castle.*
b, East .. { *p* Armagh	77	2nd	46	28th	68·6	49·1	58·2	+ 0·8	113	0	0	38	62·6	+0·9	57·7	−0·3	1	0·02	− 0·78	6·0	+ 1·6	39	+10	Armagh.
a Donaghadee	67	2nd	48	2nd	62·3	52·6	57·1	− 0·6	106	0	*	*	*	*	*	*	0	0·00	− 0·72	*	*	*	*	
10. IRELAND. S.											0	43	62·1	+0·8	57·8	−0·3	—	—	—	*	*	*	*	Trinity Coll.
p Dublin, City	70	27, 2	49	2nd	67·6	52·7	59·6	− 0·3	123	0	0	38	*	*	*	*	—	—	—	6·4	+ 1·0	42	+7	Phœnix Park.
a, East .. { *a* Kilkenny	78	27, 2	44	27th	73·7	50·7	61·4	+ 2·9	136	0	0	47	*	*	*	*	0	0·00	− 0·66	*	*	*	*	Dublin City.
a Waterford	78	27th	43	27th	74·9	49·9	61·5	+ 2·2	137	0	*	*	*	*	*	*	0	0·00	− 0·80	*	*	*	*	
a Birr Castle	77	2nd	44	27, 28	71·6	49·3	59·7	+ 1·5	124	0	*	*	*	*	*	*	0	0·00	− 0·76	6·8	+ 2·3	44	+15	Birr Castle.
a Foynes	75	28th	50	27th	70·0	53·6	61·2	+ 2·5	134	0	*	*	*	*	*	*	1	0·01	− 0·79	*	*	*	*	
a Cahir	79	27th	46	27th	75·1	50·6	62·0	+ 3·2	140	0	*	*	*	*	*	*	0	0·00	—	*	*	*	*	
b, West .. { *a* Killarney	79	27, 2	49	29, 30, 31	77·3	52·0	63·8	+ 5·3	153	0	*	*	*	*	*	*	1	0·03	− 0·85	*	*	*	*	
a Valencia	73	27th	50	30th	69·9	53·4	61·1	+ 2·5	134	0	*	*	*	*	*	*	0	0·00	− 1·00	10·0	+ 5·1	65	+33	Valencia.
a Roche's Point	70	31st	53	27, 29	67·6	54·9	60·8	+ 1·7	132	0	*	*	*	*	*	*	1	0·02	− 0·73	8·6	*	56	*	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	70	1, 2	55	27th	68·1	57·6	62·5	+ 1·8	144	0	*	*	*	*	*	*	1	0·07	− 0·47	8·9	+ 1·7	59	+11	Scilly.
a Jersey, St. Aubins ..	75	29, 2	56	29th	71·0	58·1	64·1	+ 1·5	155	0	*	*	*	*	*	*	3	0·18	− 0·34	5·8	− 2·1	39	−14	St. Heliers.
a Guernsey (Villa Carey)	70	29th	55	29th	65·7	56·4	60·7	− 0·7	131	0	0	51	60·9	−3·6	60·0	−1·1	2	2·09	+ 1·55	3·8	− 4·4	25	−30	Guernsey.*

Additional Sunshine Means:—*Bognor, 9·2 hrs. 61 %; Ramsgate, 4·1 hrs. 27 %; Rhyl, 8·1 hrs. 53 %; Salcombe, 7·9 hrs. 52 %; Tenby, 7·0 hrs. (+0·5) 46 % (+3); Torquay, 8·0 hrs. (+1·0) 53 % (+7).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, August 2nd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	53	52	52·9	+0·1	SCOTLAND, W. ..	{ Lamlash	62	56	59·4	+3·5
	{ Kirkwall	—	—	—	—		{ Ballantrae	64	57	59·4	+3·4
	{ Wick	54	53	53·5	+0·8	ENGLAND, N.W. ..	Port Erin	58	55	56·2	−0·1
	{ Cromarty	61	57	58·5	+2·0		{ Newquay	60	59	59·4	−2·1
SCOTLAND, E. ..	{ Pennan Bay	60	56	57·9	+1·5	ENGLAND, S.W. ..	{ Scilly	63	59	60·8	—
	{ Aberdeen, Cove Bay	56	55	55·5	+0·6		{ Plymouth‡	62	61	61·8	+0·9
ENGLAND, N.E. ..	{ Burnmouth, Berwick	54	52	53·1	−1·5		{ Salcombe	62	58	60·5	+1·9
	{ Scarborough	56	52	53·4	−3·9	IRELAND, N.W. ..	{ Sheephaven	60	58	59·3	+0·6
ENGLAND, E. ..	Shipwash Lightship	64	58	59·9	−2·0		{ Teelin	64	59	62·3	+2·0
ENGLAND, S.E. ..	Eastbourne‡	63	62	62·1	−1·7	IRELAND, S.W. ..	{ Cleggan	62	57	59·6	+2·1
						IRELAND, E.	{ Seafield	65	61	63·1	+1·8
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-FIRST WEEK—July 27th to August 2nd, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	75	45	65·1	52·2	58·2	+ 3·1	113	+ 21	0	0	1	− 4	0·03	−0·83	2·5	−1·1	16	− 7
Eastern.																		
1. SCOTLAND, EAST ...	80	39	69·2	49·6	58·7	+ 2·1	117	+ 14	0	0	0	− 4	0·00	−0·63	5·0	0·0	31	0
2. ENGLAND, N.E.	81	40	66·4	50·3	57·8	− 0·9	111	− 6	0	0	0	− 3	0·00	−0·69	5·8	+0·2	37	+ 1
3. ENGLAND, EAST ...	75	45	66·0	52·2	58·6	− 1·9	116	− 14	0	0	0	− 3	0·00	−0·49	5·7	−0·5	37	− 3
4. MIDLAND COUNTIES ...	80	42	71·7	50·7	60·5	+ 0·7	130	+ 6	0	0	0	− 3	0·00	−0·56	5·7	+0·1	37	+ 1
5. ENGLAND, S.E.	82	41	69·0	53·3	60·6	− 0·9	130	− 6	0	0	0	− 3	0·00	−0·48	6·8	+0·4	44	+ 2
Western.																		
6. SCOTLAND, WEST ...	78	41	69·6	50·2	59·2	+ 2·0	120	+ 14	0	0	0	− 4	0·00	−0·87	5·8	+0·5	37	+ 3
7. ENGLAND, N.W.	78	41	70·0	51·6	60·2	+ 1·2	127	+ 8	0	0	0	− 3	0·00	−0·78	8·5	+3·0	54	+19
8. ENGLAND, S.W.	81	41	70·8	53·3	61·4	+ 1·5	136	+ 11	0	0	1	− 2	0·03	−0·64	8·9	+2·7	58	+18
9. IRELAND, NORTH ...	77	44	66·2	51·0	58·1	+ 0·5	113	+ 4	0	0	0	− 5	0·00	−0·81	6·9	+2·6	44	+17
10. IRELAND, SOUTH ...	79	43	72·0	51·9	61·2	+ 2·0	134	+ 14	0	0	1	− 3	0·01	−0·80	8·0	+3·0	52	+20
11. ENGLISH CHANNEL ...	75	55	68·3	57·4	62·4	+ 0·7	143	+ 5	0	0	2	− 1	0·78	+0·25	6·2	−1·8	41	−12

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 9 Weeks, June 1st to August 2nd, 1913.

0. SCOTLAND, NORTH ...	78	33	*	*	*	*	768	+ 10	0	− 2	29	− 8	5·30	−0·53	4·3	−0·3	25	− 1
Eastern.																		
1. SCOTLAND, EAST ...	80	31	*	*	*	*	836	− 20	0	− 1	24	− 8	2·98	−2·42	5·2	−0·4	31	− 2
2. ENGLAND, N.E.	82	37	*	*	*	*	902	− 57	0	0	23	− 5	1·86	−2·68	5·0	−1·2	31	− 7
3. ENGLAND, EAST ...	84	38	*	*	*	*	978	−100	0	0	23	− 4	2·74	−1·71	5·2	−1·6	32	−10
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	993	− 61	0	0	20	− 7	1·81	−2·82	4·8	−1·3	30	− 8
5. ENGLAND, S.E.	84	38	*	*	*	*	1,030	−100	0	0	18	− 7	2·15	−2·05	5·6	−1·3	35	− 8
Western.																		
6. SCOTLAND, WEST ...	78	38	*	*	*	*	878	− 32	0	0	28	− 5	4·17	−2·60	5·8	−0·1	35	− 1
7. ENGLAND, N.W.	78	36	*	*	*	*	934	− 62	0	0	26	− 4	3·92	−1·65	5·8	−0·3	35	− 2
8. ENGLAND, S.W.	83	34	*	*	*	*	986	− 64	0	0	21	− 8	2·13	−3·31	6·5	−0·1	41	− 1
9. IRELAND, NORTH ...	77	35	*	*	*	*	817	−100	0	0	31	− 7	4·71	−1·50	4·8	−0·2	29	− 1
10. IRELAND, SOUTH ...	79	38	*	*	*	*	930	− 85	0	0	29	− 3	3·62	−2·28	5·6	0·0	34	0
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	1,033	− 93	0	0	22	− 7	2·07	−2·22	6·8	−1·2	43	− 8

THE YEAR.—Aggregates, &c., for the Period of 31 Weeks, December 29th, 1912, to August 2nd, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,173	− 33	424	−133	135	− 6	26·99	−0·46	3·1	−0·5	23	− 4
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,281	−106	601	− 19	116	0	16·21	−0·45	3·7	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	1,487	− 24	406	− 69	109	+ 4	13·15	+0·13	3·7	−0·9	28	− 7
3. ENGLAND, EAST ...	84	20	*	*	*	*	1,758	− 11	303	−218	104	+ 2	12·10	−0·67	4·1	−0·8	31	− 6
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	1,703	− 70	392	−141	107	+ 6	15·60	+1·26	3·5	−0·9	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	1 837	− 60	221	−160	100	+ 4	14·43	+0·62	4·3	−0·6	33	− 5
Western.																		
6. SCOTLAND, WEST ...	78	17	*	*	*	*	1,445	− 57	323	−102	128	+ 6	25·12	+0·53	3·7	−0·7	28	− 5
7. ENGLAND, N.W.	78	10	*	*	*	*	1,556	− 61	298	− 88	122	+11	20·21	+2·35	3·9	−0·5	30	− 4
8. ENGLAND, S.W.	83	19	*	*	*	*	1,737	− 78	221	− 80	121	+12	22·61	+3·09	4·3	−0·5	33	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	1,449	−128	297	− 48	141	+ 8	22·88	+2·71	3·6	−0·4	28	− 3
10. IRELAND, SOUTH ...	79	22	*	*	*	*	1,703	−131	243	− 16	141	+23	26·03	+4·61	4·0	−0·5	30	− 4
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	1,991	− 54	38	− 71	117	+ 1	16·90	+0·69	4·7	−1·1	37	− 9

M.O., August 6, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 32. THIRTY-SECOND WEEK, SUNDAY, AUGUST 3RD, TO SATURDAY, AUGUST 9TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. Until the week drew towards its close the weather continued dry in almost all parts of the Kingdom, but showers were experienced in some localities early in the period, and on Friday or Saturday most parts of the country had a little rain, a few places a considerable fall. Thunderstorms occurred on the 7th in the Metropolitan area, on the 8th at Southampton, and on the 9th at several stations in the south and east of England.

Temperature was below the average in all districts; more than 4°·5 in England E. and S.E. The highest of the maxima were registered, as a rule, on the 3rd, and ranged from 82° in England N.E. and the Midland Counties, 81° in England S.W., and 80° in Scotland W. to 70° in Ireland N. and to 69° in Scotland N. The lowest of the minima which were recorded on irregular dates, varied from 35° in Scotland W. and England S.W. to 43° in Ireland S. and to 46° in the English Channel. The lowest grass readings were 27° at Fulbeck, 28° at Shrewsbury and Markree Castle, and 29° at Worksop and Birmingham. The temperature of the soil was below the normal both at a depth of 1 foot and 4 feet at nearly all stations except Newton Rigg.

Mean Temperature of the Sea. Except on the east coast of England the water was warmer than during the corresponding week of last year, the difference being rather considerable. As a whole, however, its temperature differed little from the average. At Teelin the mean for the week was as high as 65°, at Eastbourne 62° and at Salcombe 61°·5. At Burnmouth and Aberdeen it was as low as 55°, and at Lerwick 53°.

Rainfall was less than the average in all districts. Over the United Kingdom as a whole the fall was very slight, and in some localities there was no rain. At Bath, however, 1·0 in. fell during a thunderstorm on the 9th, and more than 0·5 in. fell at some extreme south-western, north-western and eastern stations.

Bright Sunshine was less than the normal in Scotland E. the Midland Counties, England S.E., and the English Channel, but equal to it in Scotland N., and above it in all other districts. In England N.W. the daily mean was 7·6 hours, and the percentage of the possible duration 50; in the Midland Counties and England S.E. the corresponding values were about 4·9 and 33, and in Scotland N. 3·7 and 23.

Barometer and Wind. During the early part of the week a large anticyclonic system extended over these Islands from the Atlantic, and the wind was light from between North-West and North-East. Later, however, the high pressure retreated westward, while shallow depressions, secondary to a large disturbance over Scandinavia, moved southward and south-eastward over the North Sea, and others developed over Great Britain. The wind remained chiefly Northerly in the west, but became very variable elsewhere.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 127.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient
	Rainfall ...	Very light	Very light	Light	Light	Light	Light	Very light	Light	Light	Very light	Very light	Light
	Sunshine ...	Moderate	Moderate	Abundant	Moderate	Scanty	Scanty	Abundant	Abundant	Moderate	Abundant	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 10 weeks from June 1st, 1913.	Warmth ...	3 * 3	1 * 4	2 * 5	2 * 5	1 * 5	1 * 6	2 * 4	2 * 5	2 * 5	1 * 5	1 * 4	0 * 6
	Rainfall ...	2 * 6	1 * 7	0 * 8	1 * 3	0 * 7	1 * 6	2 * 5	2 * 6	1 * 8	1 * 6	2 * 6	1 * 5
	Sunshine ...	3 * 4	3 * 3	3 * 5	1 * 5	1 * 6	1 * 6	3 * 4	4 * 4	2 * 3	4 * 5	3 * 3	2 * 7

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *12	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(31285—24.) Wt. 196—786. 450. 8/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	57	*3, 4, 5*	*45*	*9th*	*55·4*	*47·0*	*51·0*	—	*63*	*0*	•	•	54·3	•	•	•	*7*	*0·22*	—	*5·1*	—	*31*	—	*Baltasound.*
a Lerwick	57	3, 4, 5	42	4th	55·3	47·6	51·2	- 1·0	64	0	•	•	•	•	•	•	5	0·19	—	3·7	- 0·4	23	- 2	Deerness.
a Stornoway	62	3, 7	46	7th	59·0	49·4	53·9	- 0·1	83	0	•	•	•	•	•	•	3	0·11	- 0·78	4·5	+ 0·1	29	+ 1	Stornoway.
a Castlebay, Barra Isd.‡ ..	*62*	*3rd*	*50*	*6, 7*	*59·0*	*51·6*	*55·1*	+ *0·7*	*92*	*0*	•	•	•	•	•	•	*2*	*0·10*	—	*7·1*	—	*46*	—	*Castlebay.*
a Wick	62	3rd	41	8th	57·1	46·7	51·6	- 2·8	67	0	•	•	•	•	•	•	3	0·08	- 0·57	•	•	•	•	
p Strathpeffer ..	69	3rd	41	7th	65·3	46·6	55·4	- 0·1	94	0	•	•	•	•	•	•	1	0·02	- 0·58	4·4	+ 0·4	28	+ 2	Strathpeffer.
p Glencarron ..											•	•	•	•	•	•	—	—	—	•	•	•	•	
p Fort Augustus..	68	3rd	37	7th	62·3	46·9	54·1	- 1·6	85	0	•	•	•	•	•	•	2	0·07	- 0·71	2·1	- 0·9	14	- 6	Fort Augustus.
p Fort William ..	69	3rd	38	7th	63·1	46·3	54·2	- 2·0	85	0	•	•	•	•	•	•	2	0·03	- 1·32	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle.. S	70	3rd	41	7th	62·3	46·0	53·7	- 2·6	82	0	0	34	58·6	- 0·7	55·4	- 0·2	—	—	—	3·1	—	20	—	Crathes S.
a Nairn	69	3rd	43	7, 8	61·7	48·0	54·4	- 1·8	87	0	•	•	•	•	•	•	3	0·07	- 0·73	*2·6*	—	*17*	—	*Gordon Castle.*
a Aberdeen	76	3rd	43	8th	62·6	48·1	54·9	- 1·1	90	0	•	•	•	•	•	•	1	0·01	- 0·54	3·3	—	21	—	Nairn.
a Balmoral	72	3rd	36	8th	63·0	42·7	52·2	- 1·2	71	0	0	33	•	•	•	•	3	0·19	- 0·44	4·4	- 0·6	28	- 4	Aberdeen.
p Crieff	75	3rd	41	7th	65·6	47·1	55·8	- 1·7	97	0	•	•	•	•	54·3	+0·2	4	0·24	- 0·53	•	•	•	•	Balmoral.
a Leith	76	3rd	46	7th	64·4	50·9	57·3	- 0·7	107	0	•	•	•	•	•	•	2	0·09	- 0·78	6·0	—	39	—	Balruddery.
p West Linton .. S	75	3rd	37	8th	62·4	42·6	51·9	- 3·0	69	0	1	30	•	•	•	•	2	0·08	- 0·55	•	•	•	•	
p Marchmont .. S	79	3rd	43	7th	63·7	46·6	54·6	- 1·2	88	0	0	37	59·1	- 0·1	•	•	3	0·13	- 0·64	6·1	+ 1·1	40	+ 7	*West Linton.* Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	78	3rd	40	5th	65·7	47·3	56·0	- 0·8	98	0	0	34	59·4	0·0	55·6	- 0·7	2	0·09	- 0·56	6·6	—	43	—	Cockle Park.
a Shields	76	3rd	45	5th	62·9	49·6	56·9	- 1·8	97	0	•	•	•	•	•	•	2	0·05	- 0·55	•	•	•	•	
p Durham	82	3rd	38	5th	64·4	45·6	54·4	- 3·5	87	0	0	35	•	•	•	•	2	0·07	- 0·52	4·9	- 0·1	32	- 1	Durham.
a, North .. *p* Rounton	80	3rd	39	5th	63·3	44·4	53·3	- 4·0	79	0	0	36	58·1	•	•	•	4	0·68	+ 0·04	•	•	•	•	Rounton.
a West Witton	*82*	*3rd*	*38*	*5th*	*64·4*	*45·3*	*54·3*	—	*86*	*0*	0	33	58·5	•	54·3	•	*3*	*0·20*	—	•	•	•	•	*West Witton.*
p Scarborough	70	3rd	47	5th	63·9	51·1	57·1	- 1·3	106	0	•	•	•	•	58·3†	•	2	0·36	- 0·24	7·8	—	51	—	Scarborough.
p York	82	3rd	40	5, 6	67·1	46·0	55·9	- 3·3	97	0	•	•	59·0	- 1·5	56·8	- 1·1	3	0·13	- 0·46	5·4	+ 0·3	35	+ 2	York.
											0	36	58·0	- 3·5	55·0	- 1·0	—	—	—	*4·6*	—	*31*	—	*Hull.*
a Spurn Head	66	3rd	47	5th	62·6	50·3	56·1	- 3·3	99	0	•	•	•	•	•	•	2	0·09	- 0·35	*7·1*	—	*47*	—	*Spurn Head.*
b, South .. *a* Lincoln	81	3rd	40	5th	66·4	46·9	56·1	- 3·6	99	0	•	•	60·6	- 1·8	57·3	+0·1	1	0·08	- 0·44	•	•	•	•	Lincoln.
a Fulbeck	80	3rd	38	5th	66·8	42·9	54·1	- 5·6	85	0	4	27	60·9	- 4·2	57·0	- 1·9	2	0·22	- 0·33	5·7	—	38	—	Rauceby.
											•	•	•	•	•	•	—	—	—	8·6	—	57	—	Skegness.
											0	38	61·3	- 3·8	59·6	- 0·9	—	—	—	*6·8*	—	*45*	—	*Lowestoft.*
3. ENGLAND, E.																								
p Cromer	69	3rd	47	8th	63·9	49·3	56·2	- 3·7	99	0	•	•	•	•	•	•	1	0·13	—	8·4	—	56	—	Cromer.
p Little Massingham ..	74	3rd	43	5, 7	65·4	45·9	55·1	- 4·8	92	0	0	37	•	•	•	•	1	0·05	- 0·59	7·2	+ 1·1	48	+ 8	Lit. Massingham.
a, North .. *a* Yarmouth	65	3rd	44	7th	62·9	48·6	55·3	- 5·0	93	0	•	•	62·1	- 5·0	59·9	- 2·4	2	0·70	+ 0·15	7·1	—	47	—	Yarmouth.
a Norwich	74	3rd	42	7th	65·9	45·3	55·0	- 5·1	91	0	0	38	60·2	•	•	•	1	0·08	—	*6·6*	—	*44*	—	*Norwich.*
p Geldeston	70	3, 9	41	7th	65·3	43·7	53·9	- 5·8	83	0	•	•	•	•	•	•	1	0·04	- 0·47	6·5	0·0	43	0	Geldeston.
p Cambridge	75	3rd	38	7th	67·4	45·0	55·5	- 4·3	95	0	0	33	61·1	- 3·1	58·9	- 1·5	1	0·01	- 0·52	6·4	+ 0·1	43	0	Cambridge.
a Felixstowe	*65*	*9th*	*44*	*7th*	*63·3*	*48·3*	*55·4*	- *5·7*	*94*	*0*	•	•	•	•	•	•	*2*	*0·09*	—	*6·6*	—	*44*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	65	3rd	44	7th	63·1	48·6	55·4	- 5·6	94	0	0	37	59·3	- 3·0	59·0	- 1·7	1	0·33	—	6·4	—	43	—	Clacton.
a Rothamsted	75	3rd	45	3rd	66·7	46·9	56·2	- 3·3	99	0	•	•	•	•	•	•	0	0·00	- 0·56	6·0	- 0·6	40	- 4	Rothamsted.
a Shoeburyness	*65*	*9th*	*44*	*7th*	*63·7*	*50·4*	*56·7*	- *5·8*	*103*	*0*	0	35	62·3	- 5·0	•	•	*0*	*0·00*	- 0·39	*5·6*	—	*38*	—	*Southend.*
p Tottenham	74	3rd	48	9th	66·6	50·4	58·0	- 3·7	112	0	0	44	•	•	60·5	- 1·2	1	0·04	—	5·7	—	38	—	Tottenham.
4. MIDLAND COUNTIES.																								
											0	36	60·3	- 2·7	55·6	- 1·1	—	—	—	*4·7*	—	*31*	—	*Huddersfield.*
a Harrogate	79	3rd	40	5th	63·9	46·9	54·9	- 2·6	90	0	0	35	57·6	- 0·5	56·3	+0·1	3	0·13	- 0·49	5·9	—	39	—	Harrogate.
a Bawtry	82	3rd	39	4th	66·4	45·9	55·5	- 4·1	95	0	1	29	59·0	•	56·7	•	1	0·04	- 0·50	3·8	- 1·2	25	- 8	Worksop.
p Buxton	*76*	*3rd*	*35*	*5th*	*61·1*	*43·4*	*51·7*	- *4·7*	*68*	*0*	0	37	56·9	- 3·7	54·2	- 0·6	*2*	*0·29*	- *0·71*	*5·5*	—	*35*	—	*Buxton.*
a, East .. *a* Nottingham	81	3rd	44	8th	66·4	45·9	55·5	- 4·1	95	0	0	37	59·4	- 3·1	58·0	- 1·4	0	0·00	- 0·55	4·4	—	29	—	Nottingham.
p Birmingham, Edgbsn.	79	3rd	43	8th	65·1	48·4	56·3	- 2·4	100	0	2	29	56·5	- 1·4	53·0	- 0·7	1	0·11	- 0·47	4·6	—	31	—	Birmingham.
a Raunds	78	3rd	38	8th	68·9	43·3	55·3	- 5·1	93	0	0	32	60·1	•	57·0	•	0	0·00	—	•	•	•	•	Raunds.
p Oxford	78	3rd	43	5th	67·6	48·1	57·3	- 3·3	107	0	0	38	•	•	•	•	2	0·11	- 0·42	5·5	- 0·7	37	- 5	Oxford.
											0	36	57·5	- 3·2	54·9	- 1·2	—	—	—	4·1	—	27	—	Sheffield.
a Cheadle	72	3rd	40	4th	64·7	45·6	54·6	- 2·8	88	0	0	36	•	•	•	•	2	0·12	- 0·63	•	•	•	•	Cheadle.
p Shrewsbury	79	3rd	37	8th	67·3	44·7	55·3	- 3·8	93	0	1	28	•	•	•	•	2	0·49	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	80	3rd	41	9th	68·0	44·9	55·8	- 3·6	97	0	0	33	•	•	•	•	2	0·16	- 0·38	•	•	•	•	Hereford.
a Cirencester	79	3rd	46	9th	67·5	50·3	58·4	- 0·1	115	0	0	41	61·5	•	58·0	•	1	9·14	- 0·52	4·8	- 1·3	32	- 9	Cirencester.
a Bath	81	3rd	42	5th	68·6	48·0	57·7	- 2·3	110	0	0	•	•	•	•	•	1	0·96	+ 0·35	5·1	—	34	—	Bath.
5. ENGLAND, S.E.																								
											0	37	62·3	- 1·4	59·2	- 1·7	—	—	—	•	•	•	•	Canterbury.
p Kew	74	*3rd*	47	9th	66·0	50·7	57·9	- 3·3	111	0	0	41	60·4	- 3·1	57·9	- 1·0	1	0·22	- 0·28	5·1	- 1·2	34	- 9	Kew.
a Marlborough	76	3rd	36	9th	65·9	42·1	53·3	- 5·5	79	0	0	32	—	—	57·3	—	1	0·20	- 0·26	4·9	- 1·0	33	- 7	Marlborough.
a Margate	65	3, 7	46	6th	63·7	50·3	56·6	- 5·3	102	0	0	38	59·0	- 4·8	56·6	- 3·3	3	0·12	- 0·33	4·8	- 1·6	32	-11	Margate.
a Wisley, Surrey ..	73	3rd	45	7th	67·1	47·3	56·6	- 5·1	102	0	0	34	60·8	- 3·2	58·5	- 2·1	0	0·00	—	4·5	—	30	—	Wisley.
											0	44	62·9	- 2·8	61·3	+0·3	—	—	—	4·8	—	32	—	Worthing.
p Salisbury (Wilton) ..	78	3rd	43	5, 7, 9	69·0	44·9	56·2	- 4·9	99	0	0	40	63·9	•	•	•	1	0·18	- 0·36	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	66	4th	43	9th	64·7	48·9	56·3	- 4·7	100	0	•	•	•	•	•	•	1	0·06	- 0·37					Littlestone.
p Hastings..	69	4th	49	6th	65·1	50·9	57·6	- 3·6	109	0	0	41	61·9	•	60·0	•	0	0·00	- 0·53	*5·4*	- *1·8*	*36*	*-12*	*Hastings.*
p Southampton	71	3, 4	48	9th	65·1	50·0	57·1	- 5·2	106	0	0	41	•	•	•	•	3	0·53	- 0·04	4·2	- 2·7	28	-18	Southampton.
a Ventnor	69	4th	50	9th	65·7	52·6	58·8	- 3·4	118	0	•	•	•	•	•	•	2	0·31	- 0·16	5·0	- 1·8	34	-12	Ventnor.
											0	40	63·4	- 3·2	61·0	- 1·1	—	—	—	*4·4*	—	*30*	—	*Portsmouth.*
											•	•	62·3	•	60·0	•	—	—	—	5·7	- 1·4	38	-10	Eastbourne.
											•	•	61·3	•	60·9	•	—	—	—	*4·8*	—	*32*	•	*Bournemouth.*
LONDON.											•	•	•	•	61·1	•	—	—	—	*4·8*	- *2·5*	*32*	*-17*	*Brighton.*
a Westminster	*74*	*3rd*	*50*	*7, 9*	*67·6*	*52·6*	*59·7*	- *1·6*	*124*	*0*	0	44	•	•	•	•	*1*	*0·09*	- *0·43*	*5·4*	- *0·2*	*36*	- *2*	*Westminster.*
a Greenwich	*75*	*3rd*	*45*	*9th*	*63·9*	*48·6*	*58·1*	- *4·6*	*113*	*0*	0	34	•	•	•	•	*1*	*0·09*	- *0·42*	*5·3*	- *1·9*	*36*	*-13*	*Greenwich.*
a Hampstead	*72*	*3rd*	*49*	*5, 6, 9*	*64·9*	*50·3*	*57·2*	—	*106*	*0*	0	37	•	•	•	•	*1*	*0·10*	—	*5·7*	—	*38*	—	*Hampstead.*
a Camden Square ..	*78*	*3rd*	*48*	*9th*	*70·4*	*50·4*	*59·8*	—	*125*	*0*	0	46	•	•	•	•	*1*	*0·07*	—	*5·3*	—	*36*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	65	3, 4	41	5, 7	63·4	45·4	53·9	- 3·3	83	0	•	•	•	•	•	•	0	0·00	- 1·03	•	•	•	•	
p Glasgow .. .. S	70	3rd	45	7, 8	62·7	49·4	55·7	- 1·0	96	0	0	34	•	•	•	•	1	0·01	- 0·84	4·1	- 0·3	27	- 2	Glasgow.
p Rothesay .. S	71	3rd	45	6th	65·7	47·4	56·0	- 1·0	98	0	•	•	•	•	56·0	- 3·0	2	0·03	- 1·03	•	•	•	•	
a Kilmarnock .. S	69	3rd	38	7th	63·9	44·7	53·7	- 3·4	82	0	•	•	•	•	•	•	1	0·05	—	*5·6*	—	*36*	—	*Kilmarnock.*
a Colmonell ..	69	3rd	35	8th	64·6	48·0	55·8	- 1·3	97	0	0	34	•	•	•	•	1	0·03	- 0·86	•	•	•	•	
p Dumfries ..	74	3rd	42	7, 8	64·0	48·4	55·7	- 2·2	96	0	0	35	61·4	•	59·5	•	1	0·09	- 0·76	*6·2*	—	*41*	—	*Dumfries.*
p Cally, Gatehouse S	80	3rd	35	8th	66·7	44·4	54·9	- 1·7	90	0	•	•	•	•	•	•	1	0·02	- 0·98	•	•	•	•	
b I. OF MAN.																								
p Douglas	68	3rd	47	5, 7, 8	61·7	49·4	55·2	- 1·7	92	0	0	42	•	•	•	•	1	0·03	- 0·84	9·4	+ 3·5	61	+23	Douglas.
											1	30	57·6	- 2·3	55·2	- 0·5	—	—	—	*5·1*	—	*34*	—	*Burnley.*
											0	35	•	•	•	•	—	—	—	8·1	—	54	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	77	3rd	43	6th	65·7	47·3	56·0	- 0·7	98	0	0	33	59·8	•	55·3	•	2	0·12	- 0·84	7·5	—	49	—	Aspatria.
p Newton Rigg	79	3rd	39	8th	66·3	44·9	55·0	- 1·1	91	0	0	36	61·8	+1·2	56·8	+0·3	2	0·12	- 0·64	7·2	+ 2·1	47	+14	Newton Rigg.
p Stonyhurst	76	3rd	41	5th	63·6	47·6	55·1	- 2·6	92	0	0	31	•	•	•	•	4	0·51	- 0·54	6·3	+ 1·2	42	+ 8	Stonyhurst.
p Blackpool	70	3rd	42	8th	63·1	48·3	55·3	- 3·4	93	0	0	35	59·8	•	55·4	•	1	0·67	- 0·09	8·6	+ 3·1	57	+21	Blackpool.
p Manchester (Whit. Pk.)	76	3rd	43	5th	64·1	48·3	55·7	- 3·4	96	0	0	38	•	•	•	•	2	0·46	- 0·17	*4·1*	- *0·4*	*27*	- *2*	*Whit. Park.*
a Liverpool (Bidston) ..	66	3rd	49	5, 8	61·9	52·7	57·0	- 1·7	105	0	0	•	•	•	•	•	3	0·55	- 0·12	*7·3*	—	*48*	—	*Liverpool.*
a Hawarden Bridge ..	71	4th	41	8th	64·9	48·0	55·9	- 4·1	97	0	0	32	62·9	- 1·3	60·7	- 0·7	1	0·42	- 0·21	*9·1*	+ *3·3*	*60*	+22	*Southport.*
											0	39	61·1	- 0·7	61·2	+2·2	—	—	—	*3·1*	—	*21*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	69	3rd	47	7th	64·0	51·1	57·2	- 2·2	106	0	•	•	•	•	•	•	1	0·61	- 0·02	9·2	+ 3·6	61	+24	Llandudno.
a Holyhead	66	3, 4	48	8th	63·3	53·1	57·9	- 0·6	111	0	•	•	•	•	•	•	2	0·24	- 0·42	*9·3*	—	*62*	—	*Holyhead.*
p Bettws-y-Coed ..	71	3rd	39	7th	63·9	45·7	54·3	- 4·7	86	0	0	38	57·1	- 1·5	55·4	- 0·1	2	0·50	—	4·9	—	33	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	9·1	—	61	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	•	•	•	9·1	—	61	—	Aberystwyth.
a Llangammarch Wells	79	3rd	35	6th	65·9	42·3	53·4	- 3·8	80	0	1	30	59·2	-0·3	55·9	+0·5	2	0·27	—	5·5	—	37	—	Llangammarch
a Pembroke	72	3rd	49	8th	65·6	52·3	58·6	0·0	116	0	•	•	•	•	•	•	0	3·00	- 0·63	6·6	+ 0·2	44	+ 1	Pembroke.[Wells
p Cardiff	79	3rd	45	9th	69·1	49·7	58·8	- 1·6	118	0	0	39	62·5	-0·4	59·4	0·0	1	0·24	- 0·67	*6·1*	—	*41*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	81	3rd	48	9th	68·3	52·1	59·7	- 1·6	124	0	0	44	•	•	•	•	1	0·55	- 0·19	*6·2*	—	*42*	—	*Clifton.*
a Shaftesbury	75	3rd	—	—	66·4	—	—	—	—	—	•	•	60·6	•	59·0	•	1	0·37	- 0·29	•	•	•	•	Shaftesbury.
a Arlington	74	3rd	41	7, 9	65·1	47·1	55·6	- 2·3	95	0	•	•	○	•	•	•	2	0·10	- 0·97	•	•	•	•	Arlington.
a Newquay	*68*	*4th*	*43*	*7th*	*63·3*	*52·6*	*57·6*	*- 2·9*	*109*	*0*	•	•	63·1	•	•	•	*2*	*0·08*	*- 0·43*	6·4	- 0·3	43	- 2	Newquay.
a Cullompton	80	3rd	39	8th	69·7	45·7	57·0	- 2·7	105	0	0	34	65·9	•	•	•	2	0·43	- 0·24	6·9	+ 1·0	46	+ 7	Cullompton.
a Portland	67	4th	51	6th	65·0	52·9	58·6	- 2·1	116	0	•	•	•	•	•	•	1	0·04	—	*6·2*	—	*42*	—	*Weymouth.*
p Plymouth	71	4th	49	7, 8, 9	67·0	52·4	59·3	- 1·4	121	0	0	40	63·9	-1·8	•	•	2	0·55	- 0·09	5·2	- 1·3	35	- 9	Plymouth.
a Falmouth	70	4th	46	7th	66·0	53·0	59·1	- 1·0	120	0	•	•	•	•	•	•	2	0·11	- 0·61	6·0	- 1·1	41	- 7	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	64	3rd	51	6, 7, 8	59·3	52·3	55·6	- 0·9	95	0	•	•	•	•	•	•	1	0·01	- 0·77	•	•	•	•	• •
a Blacksod Point ..	66	3rd	50	6th	62·4	52·9	57·4	0·0	108	0	•	•	•	•	•	•	3	0·09	- 0·91	•	•	•	•	• •
p Markree Castle ..	68	3rd	38	5th	63·1	45·4	53·7	- 2·8	82	0	2	28	60·4	•	56·6	•	2	0·32	- 0·62	6·5	+ 2·3	43	+15	Markree Castle.
a Birr Castle	70	3rd	43	6, 7	64·0	48·0	55·5	- 2·4	95	0	•	•	•	•	•	•	2	0·17	- 0·66	*4·2*	*- 0·4*	*38*	*- 3*	*Birr Castle.*
b, East .. { *p* Armagh	69	3rd	42	6th	63·9	47·7	55·3	- 1·7	93	0	0	33	61·9	-0·1	58·4	+0·1	1	0·08	- 0·76	3·7	- 0·6	24	- 4	Armagh.
a Donaghadee	66	3rd	45	8th	61·1	50·0	55·2	- 2·3	92	0	•	•	•	•	•	•	0	0·00	- 0·75	•	•	•	•	• •
											0	43	61·9	-0·8	58·4	0·0	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	35	•	•	•	•	—	—	—	4·3	- 1·0	29	- 7	Phœnix Park.
a, East .. { *p* Dublin, City	72	3rd	47	6th	63·9	52·1	57·7	- 2·0	110	0	0	46	•	•	•	•	2	0·36	- 0·34	•	•	•	•	Dublin City.
a Kilkenny	74	3rd	43	7th	66·1	49·4	57·3	- 1·0	107	0	•	•	•	•	•	•	2	0·05	- 0·72	•	•	•	•	• •
a Waterford	78	3rd	45	7th	68·1	49·7	58·4	- 0·5	115	0	•	•	•	•	•	•	1	0·03	- 0·80	•	•	•	•	• •
b, West .. { *a* Birr Castle	70	3rd	45	6, 7	64·0	48·0	55·5	- 2·4	95	0	•	•	•	•	•	•	2	0·17	- 0·66	4·2	- 0·4	28	- 3	Birr Castle.
a Foynes	74	3rd	49	6, 7	65·2	51·5	57·9	- 0·7	111	0	•	•	•	•	•	•	1	0·01	- 0·88	•	•	•	•	• •
a Cahir	76	3, 4	43	7th	68·6	49·0	58·2	- 0·3	113	0	•	•	•	•	•	•	2	0·09	—	•	•	•	•	• •
a Killarney	77	3rd	46	6th	68·5	49·9	58·6	+ 0·3	116	0	•	•	•	•	•	•	2	0·22	- 0·77	•	•	•	•	• •
a Valencia	72	3rd	48	7th	64·6	52·6	58·2	- 0·4	113	0	•	•	•	•	•	•	1	0·09	- 1·01	7·4	+ 2·4	49	+16	Valencia.
a Roche's Point	70	4th	49	6th	66·3	53·6	59·6	+ 0·7	123	0	•	•	•	•	•	•	3	0·08	- 0·75	6·7	—	45	•	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	69	3, 5	52	9th	66·0	55·4	60·4	- 0·3	129	0	•	•	•	•	•	•	3	0·17	- 0·38	5·0	- 2·3	34	-16	Scilly.
a Jersey, St. Aubins ..	73	4th	46	7th	66·7	53·7	59·8	- 2·8	125	0	•	•	•	•	•	•	1	0·12	- 0·42	7·2	- 0·7	49	- 5	St. Heliers.
a Guernsey (Villa Carey)	71	4th	49	6, 7	65·7	52·6	58·8	- 2·7	118	0	0	42	61·8	-3·3	60·1	-0·6	1	0·31	- 0·27	7·9	- 0·2	54	- 1	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·3 hrs. 36 %; Ramsgate, 4·4 hrs. 30 %; Rhyl, 9·5 hrs. 63 %; Salcombe, 5·9 hrs. 40 %; Tenby, 7·5 hrs. (+1·0) 50 % (+7); Torquay, 6·0 hrs. (-0·9) 40 % (-6).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, August 9th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick..	54	53	53·1	0·0	SCOTLAND, W. ..	{ Lamlash	62	57	58·8	+2·8
	{ Kirkwall	—	—	—	—		{ Ballantrae	64	55	59·1	+2·5
	{ Wick	54	53	53·5	+0·3	ENGLAND, N.W. ..	{ Port Erin	59	55	56·3	-0·8
	{ Cromarty	60	57	58·5	+1·6		{ Newquay	60	59	60·0	-1·8
SCOTLAND, E. ..	{ Pennan Bay	59	58	58·7	+2·0	ENGLAND, S.W. ..	{ Scilly	62	60	61·0	—
	{ Aberdeen, Cove Bay	56	54	55·3	-0·1		{ Plymouth‡	62	60	61·3	+0·1
ENGLAND, N.E. ..	{ Burnmouth, Berwick	55	54	54·5	-0·1		{ Salcombe	63	59	61·5	+2·0
	{ Scarborough	58	54	55·3	-2·5	IRELAND, N.W. ..	{ Sheephaven	61	58	59·2	-0·5
ENGLAND, E. ..	Shipwash Lightship	64	57	59·5	-3·2		{ Teelin	66	63	64·7	+3·1
ENGLAND, S.E. ..	Eastbourne‡	64	61	62·1	-2·0	IRELAND, S.W. ..	{ Cleggan	62	57	59·7	+1·8
						IRELAND, E.	{ Seafield	64	59	60·8	-0·9
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-SECOND WEEK—August 3rd to August 9th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	69	37	60·4	47·3	53·4	− 1·4	80	− 10	0	0	3	− 2	0·08	−0·85	3·7	0·0	23	0
Eastern.																		
1. SCOTLAND, EAST ...	79	36	63·2	46·5	54·4	− 1·8	87	− 13	0	0	3	− 1	0·12	−0·59	4·6	−0·3	29	− 2
2. ENGLAND, N.E.	82	38	64·8	47·1	55·4	− 3·0	94	− 21	0	0	2	− 1	0·20	−0·40	6·5	+1·1	43	+ 7
3. ENGLAND, EAST ...	75	38	65·1	46·9	55·5	− 4·7	95	− 33	0	0	1	− 2	0·16	−0·33	6·7	+0·6	45	+ 4
4. MIDLAND COUNTIES ...	82	37	67·0	46·6	56·2	− 3·2	99	− 23	0	0	1	− 2	0·21	−0·33	4·8	−0·8	32	− 5
5. ENGLAND, S.E.	78	36	65·8	48·6	56·7	− 4·6	103	− 32	0	0	1	− 2	0·19	−0·27	4·9	−1·6	33	−11
Western.																		
6. SCOTLAND, WEST ...	80	35	64·1	47·1	55·1	− 1·7	92	− 12	0	0	1	− 3	0·03	−0·97	6·8	+1·6	44	+10
7. ENGLAND, N.W.	79	39	64·1	48·7	55·9	− 2·7	97	− 19	0	0	2	− 2	0·42	−0·35	7·6	+2·4	50	+16
8. ENGLAND, S.W.	81	35	66·8	49·4	57·6	− 2·0	109	− 14	0	0	1	− 3	0·27	−0·38	6·5	+0·3	44	+ 2
9. IRELAND, NORTH ...	70	38	62·3	49·4	55·5	− 1·8	95	− 12	0	0	1	− 3	0·11	−0·78	5·1	+0·8	33	+ 5
10. IRELAND, SOUTH ...	78	43	66·1	50·6	57·9	− 0·9	111	− 8	0	0	2	− 2	0·12	−0·80	5·7	+0·6	38	+ 4
11. ENGLISH CHANNEL ...	73	46	66·1	53·9	59·6	− 2·2	123	− 15	0	0	2	− 2	0·20	−0·36	6·7	−1·4	46	−10

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 10 Weeks, June 1st to August 9th, 1913.

0. SCOTLAND, NORTH ...	78	33	*	*	*	*	848	0	0	− 2	32	−10	5·38	−2·16	4·3	−0·2	25	− 1
Eastern.																		
1. SCOTLAND, EAST ...	80	31	*	*	*	*	923	− 33	0	− 1	27	− 9	3·10	−3·01	5·2	−0·3	31	− 2
2. ENGLAND, N.E.	82	37	*	*	*	*	996	− 78	0	0	25	− 6	2·06	−3·08	5·2	−0·9	32	− 6
3. ENGLAND, EAST ...	84	38	*	*	*	*	1,073	−133	0	0	24	− 6	2·90	−2·04	5·4	−1·3	33	− 9
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	1,092	− 84	0	0	21	− 9	2·02	−3·15	4·8	−1·2	30	− 7
5. ENGLAND, S.E.	84	36	*	*	*	*	1,133	−132	0	0	19	− 9	2·34	−2·32	5·6	−1·3	35	− 9
Western.																		
6. SCOTLAND, WEST ...	80	35	*	*	*	*	970	− 44	0	0	29	− 8	4·20	−3·57	5·9	+0·1	36	+ 1
7. ENGLAND, N.W.	79	36	*	*	*	*	1,031	− 81	0	0	28	− 6	4·34	−2·00	6·0	−0·1	37	0
8. ENGLAND, S.W.	83	34	*	*	*	*	1,095	− 78	0	0	22	−11	2·40	−3·69	6·5	0·0	41	0
9. IRELAND, NORTH ...	77	35	*	*	*	*	912	−112	0	0	32	−10	4·82	−2·28	4·8	−0·1	29	− 1
10. IRELAND, SOUTH ...	79	38	*	*	*	*	1,041	− 93	0	0	31	− 5	3·74	−3·08	5·6	+0·1	35	+ 1
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	1,156	−108	0	0	24	− 9	2·27	−2·58	6·8	−1·2	43	− 8

THE YEAR.—Aggregates, &c., for the Period of 32 Weeks, December 29th, 1912, to August 9th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,253	− 43	424	−133	138	− 8	27·07	−1·31	3·1	−0·5	23	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,368	−119	601	− 19	119	− 1	16·33	−1·04	3·7	−0·6	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	1,581	− 45	406	− 69	111	+ 3	13·35	−0·27	3·7	−0·9	28	− 7
3. ENGLAND, EAST ...	84	20	*	*	*	*	1,853	− 44	303	−218	105	0	12·26	−1·00	4·1	−0·8	32	− 6
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	1,802	− 93	392	−141	108	+ 4	15·81	+0·93	3·6	−0·8	27	− 6
5. ENGLAND, S.E.	84	22	*	*	*	*	1,940	− 92	221	−160	101	+ 2	14·62	+0·35	4·3	−0·7	33	− 5
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	1,537	− 69	323	−102	129	+ 3	25·15	−0·44	3·8	−0·6	29	− 5
7. ENGLAND, N.W.	79	10	*	*	*	*	1,653	− 83	298	− 88	124	+ 9	20·63	+2·00	4·0	−0·4	30	− 3
8. ENGLAND, S.W.	83	19	*	*	*	*	1,846	− 92	221	− 80	122	+ 9	22·88	+2·71	4·4	−0·5	34	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	1,544	−140	297	− 48	142	+ 5	22·99	+1·93	3·7	−0·3	28	− 3
10. IRELAND, SOUTH ...	79	22	*	*	*	*	1,814	−139	243	− 16	143	+21	26·15	+3·81	4·0	−0·5	31	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	2,114	− 69	38	− 71	119	− 1	17·10	+0·33	4·8	−1·1	37	− 9

M.O., August 13, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 129

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH: or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* } No. 33. THIRTY-THIRD WEEK, SUNDAY, AUGUST 10TH, TO SATURDAY, AUGUST 16TH, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was dull and of a rather unsettled type over the whole of the Kingdom, but rain was infrequent over all the eastern and some of the western districts, and light over the country generally. Thunder or thunderstorms occurred at Nottingham, Folkestone and Cambridge on the 11th, and at Douglas, Buxton and Morpeth on the 16th.

Temperature was just equal to the normal in Scotland N., but rather above it in the western section of the Kingdom, as well as in Scotland E. and the Midland Counties. In England N.E., S.E. and E., it was below the average. The highest of the maxima were recorded very generally on the 16th, and ranged from 79° in England S.W., 78° in Ireland S. and 77° in England S.E. to 73° in Scotland W., and to 72° in Scotland N. The lowest of the minima occurred in most localities early in the week, and varied from 37° in Scotland E., and 39° in Scotland W. to 43° in England S.W., and to 54° in the English Channel. The lowest grass readings were 32° at West Linton, 34° at Crathes and Hereford, and 35° at Balmoral, Glasgow, Hoylake and Armagh. At almost all stations the temperature of the earth was below the normal at the depths of 1 foot and 4 feet.

Mean Temperature of the Sea was higher than during the corresponding week of last year except at a few north-eastern stations, the excess being more than 3° on many parts of the coast As a whole, however, it differed little from the normal for the time of year. The means for the week ranged from about 62°·5 at Eastbourne and Seafield and between 60° and 61° on the south-west coast of England to 53° at Wick.

Rainfall was less than the average in all districts, the deficit being considerable or large, except in the English Channel, where Scilly registered 1·5 in. on the 11th. In several parts of Great Britain the total fall was less than 0·1 in.

Bright Sunshine was deficient over the whole Kingdom. In Scotland and Ireland the daily mean was 3 hours or less, and in the Midland Counties only 2·1 hours. The percentage of the possible duration ranged from 37 in the English Channel and 32 in England E. to 17 in Scotland W. and Ireland N., and to 14 in the Midland Counties.

Barometer and Wind. During the greater part of the week pressure was high to the south-westward of these Islands, aud low over Scandinavia, while over the United Kingdom the barometer, although as a whole uniform, showed small irregularities. Until Thursday evening the wind was light or moderate from between North and North-West or West, but subsequently the south-western high pressure extended across this country, and the wind became very variable in direction.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 131.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Moderate
	Rainfall ...	Light	Very light	Very light	Moderate	Light	Very light	Very light	Light	Light	Light	Light	Moderate
	Sunshine ...	Scanty	Scanty	Scanty	Scanty	Very scanty	Scanty	Very scanty	Scanty	Very scanty	Scanty	Very scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 11 weeks from June 1st, 1913.	Warmth ...	3 * 3	1 * 4	2 * 5	2 * 5	2 * 5	1 * 6	2 * 4	2 * 5	3 * 5	2 * 5	2 * 4	0 * 6
	Rainfall ...	2 * 7	1 * 8	0 * 9	1 * 3	0 * 8	1 * 7	2 * 6	2 * 7	1 * 9	1 * 7	2 * 7	1 * 5
	Sunshine ...	3 * 5	3 * 4	3 * 6	1 * 6	1 * 7	1 * 7	3 * 5	4 * 5	2 * 4	4 * 6	3 * 4	2 * 8

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 2	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *12	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(31365—24.) Wt. 196—786. 450. 8/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*60*	*15th*	*40*	*13th*	*58·1*	*46·8*	*52·1*		*71*	*0*			54·5				*2*	*0·12*	—	*5·1*	—	*33*	—	*Baltasound.*
a, Islands .. *a* Lerwick	59	12, 13, 15	45	10th	57·4	48·6	52·7	+ 0·5	75	0							2	3·08	—	4·7	+ 0·8	31	+ 5	Deerness.
a Stornoway	65	16th	46	10th	59·7	50·9	55·0	+ 0·8	91	0							3	0·35	- 0·59	1·8	- 2·5	12	-17	Stornoway.
a Castlebay, Barra Isd.‡ ..	*61*	*16th*	*51*	*12th*	*58·3*	*52·6*	*55·3*	+ *0·6*	*93*	*0*							*4*	*0·56*	—	*1·5*	—	*10*	—	*Castlebay.*
a Wick	61	16th	41	12, 15	56·9	45·9	51·1	- 3·2	64	0							5	0·61	- 0·04					
p Strathpeffer ..																	—	—	—					Strathpeffer.
b, Mainland. *p* Glencarron ..	70	15th	47	10, 11	61·3	50·8	55·7	+ 2·2	96	0							2	0·19	- 1·43					
p Fort Augustus..	72	15th	46	14th	65·0	50·4	57·3	+ 1·7	107	0							1	0·04	- 0·76	2·4	- 0·5	16	- 3	Fort Augustus.
p Fort William ..	68	11, 12, 15	45	10th	66·4	49·9	57·7	+ 1·7	110	0							2	0·12	- 1·28					
1. SCOTLAND, E.																								
p Gordon Castle.. S	77	16th	38	12th	66·7	48·4	57·0	+ 0·9	105	0	0	34	57·4	-1·1	55·7	-0·1	—	—	—	2·8	—	19	—	Crathes S.
a Nairn	73	16th	39	12th	64·4	46·9	55·1	- 0·9	92	0							2	0·19	- 0·59	*2·9*	—	*19*	—	*Gordon Castle.*
a Aberdeen ..	66	16th	41	12th	62·6	47·3	54·5	- 1·5	88	0							1	0·06	- 0·49	3·4	—	23	—	Nairn.
a Balmoral ..	73	16th	39	12th	65·3	44·0	54·0	+ 1·0	84	0	0	35			54·1	-0·3	4	3·24	- 0·40	3·2	- 1·7	21	-11	Aberdeen.
p Crieff	75	16th	47	12th	66·7	50·3	58·0	+ 0·9	112	0							2	0·06	- 0·77					Balmoral.
a Leith .. .. S	74	16th	48	11th	65·0	51·7	58·0	0·0	112	0							1	0·04	- 0·90	2·6	—	17	—	Balruddery.
p West Linton .. S	75	16th	37	11th	64·9	46·9	55·4	+ 0·7	94	0	0	32					2	0·12	- 0·53					
p Marchmont .. S	74	16th	45	11th	64·7	49·4	56·6	+ 1·0	102	0	0	41	58·1	-0·3			4	0·26	—	*2·3*	—	*15*	—	*West Linton.*
2. ENGLAND, N.E.																	4	0·28	- 0·49	2·6	- 2·2	17	-15	Marchmont.
a Alnwick Castle ..	70	16th	46	11, 12	64·7	50·0	56·9	+ 0·3	104	0	0	29	57·9	-0·4	55·2	-1·1	4	0·16	- 0·52	3·4	—	23	—	Cockle Park.
a Shields	65	16th	49	12th	61·6	52·1	56·6	- 0·8	102	0							3	0·17	- 0·44					
p Durham	72	16th	45	10th	64·9	49·6	56·8	- 0·8	164	0	0	42					3	0·11	- 0·45	1·9	- 2·9	13	-20	Durham.
a, North .. *p* Rounton	74	16th	42	10th	66·6	49·6	57·6	+ 0·5	109	0	0	39	58·2				2	0·08	- 0·55					Rounton.
a West Witton ..	*69*	*16th*	*42*	*11th*	*65·1*	*49·9*	*57·0*	—	*105*	*0*	0	37	57·9		54·0		*4*	*0·16*	—					*West Witton.*
p Scarborough ..	66	11th	50	10th	63·1	52·9	57·7	- 0·5	110	0					59·0†		2	0·11	- 0·52	5·3	—	36	—	Scarborough.
p York	71	16th	47	10, 11	66·4	52·3	58·9	+ 0·1	118	0			58·3	-1·9	56·6	-0·9	1	0·11	- 0·47	2·0	- 2·9	14	-20	York.
											0	40	57·7	-3·1	55·0	-1·6	—	—	—	*2·7*	—	*18*	—	*Hull.*
a Spurn Head ..	65	14, 15	50	10th	63·7	52·1	57·6	- 1·6	109	0							1	0·01	- 0·44	*5·5*	—	*37*	—	*Spurn Head.*
b, South .. *a* Lincoln	70	11th	50	10th	67·3	52·7	59·6	+ 0·2	123	0			60·4	-1·4	57·9	-0·2	2	0·13	- 0·38					Lincoln.
a Fulbeck	69	10, 11, 16	49	10th	67·9	51·0	58·9	- 0·5	118	0	0	42	61·5	-3·2	57·1	-2·3	1	0·09	- 0·48	2·2	—	15	—	Rauceby.
																	—	—	—	6·1	—	42	—	Skegness.
											0	45	61·3	-3·1	59·3	-1·4	—	—	—	*6·0*	—	*41*	—	*Lowestoft.*
p Cromer	66	11, 13	49	13th	64·4	51·7	57·7	- 1·7	110	0							3	0·18	—	6·0	—	41	—	Cromer.
p Little Massingham ..	70	16th	47	16th	67·1	50·7	58·4	- 1·1	115	0	0	40					3	0·07	- 0·57	4·0	- 1·8	27	-13	Lit. Massingham.
a, North .. *a* Yarmouth	66	13th	50	16th	62·9	52·7	57·5	- 2·4	109	0			61·0	-5·3	59·1	-3·5	2	0·74	+ 0·20	6·0	—	41	—	Yarmouth.
a Norwich	71	16th	43	16th	66·9	50·7	58·3	- 1·3	114	0	0	40	60·4				3	0·58	—	*5·3*	—	*36*	—	*Norwich.*
p Geldeston	68	14, 16	41	16th	66·3	49·6	57·5	- 1·9	109	0							4	0·47	- 0·04	4·9	- 1·4	34	- 9	Geldeston.
p Cambridge	73	11th	43	16th	69·0	52·1	60·0	- 0·5	126	0	0	40	61·8	-1·7	58·8	-1·9	4	0·25	- 0·28	3·8	- 2·3	26	-16	Cambridge.
a Felixstowe ..	*72*	*11th*	*48*	*16th*	*66·4*	*54·3*	*60·0*	- *0·9*	*126*	*0*							*3*	*0·34*	—	*6·9*	—	*47*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	70	11th	52	10th	66·3	54·3	59·9	- 1·1	125	0	0	45	60·4	-2·0	58·9	-2·0	3	0·18	—	5·9	—	40	—	Clacton.
a Rothamsted	73	16th	48	10th	67·9	53·3	60·2	+ 1·0	127	0							4	0·59	+ 0·02	3·0	- 3·3	21	-22	Rothamsted.
a Shoeburyness ..	*70*	*11th*	*52*	*10th*	*66·9*	*55·1*	*60·7*	- *1·5*	*131*	*0*							*3*	*0·04*	- *0·35*	*4·6*	—	*32*	—	*Southend.*
p Tottenham	74	16th	52	10th	69·1	55·4	61·8	+ 0·9	139	0	0	47			61·0	-1·2	4	0·14	—	3·3	—	23	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	70	16th	44	10th	64·1	50·3	56·8	- 0·2	104	0	0	41	58·8	-3·6	55·9	-1·4	—	—	—	*1·2*	—	*8*	—	*Huddersfield.*
a Bawtry	73	11, 16	47	11th	68·6	51·1	59·3	+ 0·2	121	0	0	39	56·9	-0·9	56·1	-0·3	2	0·09	- 0·55	2·0	—	14	—	Harrogate.
p Buxton	*71*	*16th*	*43*	*10th*	*61·6*	*49·4*	*55·1*	- *0·8*	*92*	*0*	0	42	58·7		56·2		2	0·04	- 0·50	1·9	- 2·9	13	-20	Worksop.
a, East .. *a* Nottingham	74	16th	44	10th	67·4	52·4	59·5	+ 0·3	123	0	0	39	59·7	-1·7	57·9	-1·8	*6*	*0·26*	- *0·75*	*1·5*	—	*10*	—	*Buxton.*
p Birmingham, Edgbsn.	73	16th	48	10th	66·1	53·3	59·3	+ 0·9	121	0	0	40	59·5	-1·8	58·1	-1·2	4	0·17	- 0·38	1·6	—	11	—	Nottingham.
a Raunds	75	11th	46	10th	70·9	52·6	61·2	+ 1·6	134	0	0	39	60·4		57·0		4	0·31	- 0·31	1·8	—	12	—	Birmingham.
p Oxford	74	16th	47	10th	68·3	54·6	61·0	+ 0·8	133	0	0	44					2	0·03	—					Raunds.
											0	47	58·0	-2·1	54·9	-1·3	2	0·15	- 0·38	2·7	- 3·3	19	-23	Oxford.
a Cheadle	72	16th	50	10th	65·4	52·4	58·5	+ 1·5	116	0	0	43					—	—	—	1·6	—	11	—	Sheffield.
p Shrewsbury ..	76	16th	44	10th	69·0	53·4	60·7	+ 1·8	131	0	0	36					3	0·71	- 0·06					Cheadle.
b, West .. *a* Hereford	75	16th	41	10th	69·3	54·1	61·2	+ 1·8	134	0	0	34					3	0·22	—					Shrewsbury.
a Cirencester	74	16th	44	10th	68·7	53·3	60·5	+ 2·2	130	0	0	41	60·4		57·6		6	0·43	- 0·12					Hereford.
a Bath	75	15th	46	10th	69·9	55·1	62·1	+ 2·3	141	0			62·1	-2·3	60·1	-1·6	3	0·44	- 0·22	2·4	- 3·5	16	-24	Cirencester.
5. ENGLAND, S.E.																	5	0·20	- 0·43	2·8	—	19	—	Bath.
p Kew	72	16th	50	10th	68·7	55·1	61·5	+ 0·7	137	0	0	43	61·9	-1·9	59·0	-2·1	—	—	—					Canterbury.
a Marlborough ..	77	15th	43	10th	69·1	51·9	60·0	+ 2·0	126	0	0	41	60·2	-3·0	57·8	-1·4	2	0·11	- 0·41	2·7	- 3·4	19	-24	Kew.
a Margate	69	11th	50	10th	66·3	53·9	59·7	- 1·8	124	0	0	40	—	—	57·3		3	0·15	- 0·44	2·3	- 3·5	16	-24	Marlborough.
a Wisley, Surrey ..	73	11, 16	47	10th	68·9	53·9	61·0	- 0·3	133	0	0	39	58·9	-4·5	56·0	-4·4	3	0·07	- 0·38	5·5	- 0·7	38	- 5	Margate.
											0	36	60·9	-2·6	58·3	-2·7	3	0·11	—	3·0	—	21	—	Wisley.
											0	49	62·8	-2·5	60·0	-1·4	—	—	—	3·9	—	27	—	Worthing.
p Salisbury (Wilton) ..	74	15, 16	48	10, 12	70·7	53·7	61·7	+ 0·9	138	0	0	44	62·6				4	0·18	- 0·38					Salisbury.
a Tunbridge Wells ..											0	47					—	—	—					Tunbridge Wells.
a Dungeness	71	13th	48	12th	66·1	53·7	59·5	- 1·5	123	0	0	48	62·4		60·0		2	0·08	- 0·37	?	?	?	?	Littlestone.
p Hastings.. ..	69	13, 14	50	10th	67·1	55·0	60·7	- 0·3	131	0	0	45					2	0·10	- 0·44	*4·3*	- *2·6*	*30*	- *18*	*Hastings.*
p Southampton ..	72	16th	50	10th	68·7	56·0	62·0	- 0·2	140	0	0	48	63·8	-2·2	60·8	-1·7	4	0·19	- 0·40	3·9	- 2·8	27	-20	Southampton.
a Ventnor	72	12th	54	10, 12	68·6	57·1	62·5	+ 0·5	144	0	0	45					2	0·02	- 0·45	4·4	- 2·3	31	-16	Ventnor.
											0	48	63·8	-2·2	60·8	-1·7	—	—	—	*4·3*	—	*30*	—	*Portsmouth.*
													62·1		60·0		—	—	—	4·7	- 2·1	33	-14	Eastbourne.
													61·1		60·2		—	—	—	*3·8*	—	*26*	—	*Bournemouth.*
LONDON.											0	46			60·8		—	—	—	*4·4*	- *2·6*	*31*	- *18*	*Brighton.*
a Westminster	*72*	*16th*	*50*	*10, 11*	*69·3*	*54·3*	*61·4*	+ *0·3*	*136*	*0*	0	44					*3*	*0·11*	- *0·41*	*2·6*	- *2·9*	*18*	- *20*	*Westminster.*
a Greenwich	*75*	*11, 16*	*49*	*10th*	*71·3*	*53·6*	*61·9*	- *0·1*	*139*	*0*	0	40					*3*	*0·13*	- *0·36*	*2·2*	- *4·7*	*15*	- *33*	*Greenwich.*
a Hampstead	*71*	*16th*	*48*	*10th*	*67·0*	*53·6*	*59·9*	—	*125*	*0*	0	37					*4*	*0·28*	—	*2·7*	—	*19*	—	*Hampstead.*
a Camden Square ..	*77*	*16th*	*49*	*10th*	*71·4*	*54·0*	*62·2*	—	*141*	*0*	0	46					*3*	*0·21*	—	*2·6*	—	*18*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	65	11, 15	39	11th	62·4	48·1	54·8	- 2·0	90	0							4	0·27	- 0·80					
p Glasgow .. .. S	69	15th	46	11th	64·1	51·9	57·6	+ 1·2	109	0	0	35					2	0·07	- 0·82	2·3	- 2·0	15	-13	Glasgow.
p Rothesay .. S	69	11th	45	10th	64·3	52·1	57·8	+ 1·1	111	0					55·9	+0·3	3	0·14	- 0·96					
a Kilmarnock ..	73	16th	41	10th	65·7	48·3	56·5	- 0·1	102	0							4	0·12	—	*3·0*	—	*20*	—	*Kilmarnock.*
a Colmonell ..	71	16th	44	10, 12	65·6	51·0	57·9	+ 0·9	111	0	0	37					3	0·30	- 0·64					
p Dumfries ..	70	16th	47	10–12	64·9	51·6	57·9	+ 0·3	111	0	0	42	59·6		59·1		2	0·07	- 0·81	*2·7*	—	*18*	—	*Dumfries.*
p Cally, Gatehouse S	67	16th	45	10th	63·0	49·4	55·8	- 0·3	97	0							4	0·33	- 0·74					
b I. OF MAN.																								
p Douglas	70	16th	47	10th	62·7	52·9	57·5	+ 0·8	109	0	0	42					4	0·20	- 0·73	2·9	- 2·8	20	-19	Douglas.
											0	37	57·1	-2·2	55·1	-1·0	—	—	—	*1·8*	—	*13*	—	*Burnley.*
											0	35					—	—	—	3·5	—	24	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	75	16th	47	12th	65·1	52·0	58·2	+ 1·5	113	0	0	38	58·5		55·2		3	0·10	- 0·90	2·3	—	15	—	Aspatria.
p Newton Rigg	75	16th	42	11th	65·4	48·9	56·7	+ 0·8	103	0	0	39	59·7	-0·5	56·8	+0·1	3	0·11	- 0·67	2·8	- 2·1	19	-15	Newton Rigg.
p Stonyhurst	74	16th	46	10, 11	65·1	51·7	58·0	+ 0·7	112	0	0	36					2	0·22	- 0·86	2·8	- 2·1	19	-14	Stonyhurst.
p Blackpool	72	16th	50	10th	64·9	54·6	59·4	+ 0·8	122	0	0	43	59·9		55·7		2	0·05	- 0·78	3·4	- 1·9	23	-13	Blackpool.
p Manchester (Whit. Pk.)	75	16th	50	10th	65·3	54·3	59·5	+ 1·0	123	0	0	41					4	0·19	- 0·45	*1·3*	- *2·9*	*9*	- *20*	*Whit. Park.*
a Liverpool (Bidston) ..	71	16th	53	10, 14	65·1	54·6	59·5	+ 1·1	123	0							5	0·29	- 0·40	*3·1*	—	*21*	—	*Liverpool.*
a Hawarden Bridge ..	72	16th	50	10th	66·6	54·4	60·1	+ 0·3	127	0	0	42	62·6	-1·0	60·1	-1·4	5	1·33	+ 0·65	*2·4*	- *3·2*	*16*	-22	*Southport.*
											0	43	61·4	-0·1	60·1	+0·7	—	—	—	*1·2*	—	*8*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	69	15th	51	10th	67·0	55·6	61·0	+ 1·7	133	0							4	0·71	+ 0·06	3·7	- 1·7	25	-12	Llandudno.
a Holyhead	72	14th	50	10th	66·7	54·6	60·3	+ 1·4	128	0							5	0·30	- 0·40	*2·7*	—	*18*	—	*Holyhead.*
p Bettws-y-Coed ..	75	16th	40	10th	69·1	51·4	59·7	+ 0·8	124	0	0	40	57·1	-1·3	55·0	-0·5	6	0·45	—	3·2	—	22	—	Bettws-y-Coed.
																	—	—	—	2·7	—	19	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.
‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				2·0	—	14	—	Aberystwyth.
a Llangammarch Wells	74	16th	43	10th	67·7	53·1	60·0	+ 2·9	126	0	0	36	59·2	−0·7	55·6	−0·2	4	0·91	—	3·5	—	24	—	Llangammarch
a Pembroke	66	14, 15	52	12th	63·1	55·3	59·0	+ 0·3	119	0	*	*	°	*	°	*	4	0·71	+ 0·06	3·4	− 2·9	23	−20	Pembroke.[Wells
p Cardiff	71	15th	51	10th	68·1	56·0	61·7	+ 1·4	138	0	0	44	61·4	−1·7	59·2	−0·7	5	0·18	− 0·79	*2·9*	—	*20*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	72	15th	51	10th	68·7	57·6	62·8	+ 2·1	146	0	0	49	*	*	*	*	3	0·19	− 0·60	*2·3*	—	*16*	—	*Clifton.*
a Shaftesbury	72	15th	50	10th	67·9	54·3	60·7	+ 2·0	131	0	*	*	60·6	*	58·9	*	2	0·06	− 0·62	*	*	*	*	Shaftesbury.
a Arlington	72	16th	49	10th	66·3	54·0	59·8	+ 2·1	125	0	*	*	°	*	*	*	3	0·47	− 0·64	*	*	*	*	Arlington.
a Newquay	*69*	*16th*	*55*	*11, 12*	*64·0*	*57·4*	*60·5*	+ *0·8*	*130*	*0*	*	*	61·9	*	*	*	*4*	*0·38*	− *0·13*	3·6	− 2·7	25	−21	Newquay.
a Cullompton	79	15th	47	12th	71·3	55·1	62·7	+ 3·3	145	0	0	42	63·4	*	*	*	3	0·29	− 0·39	2·7	− 3·2	19	−22	Cullompton.
a Portland	71	15th	56	10, 12	66·3	58·1	62·0	+ 1·1	140	0	*	*	°	*	*	*	2	0·06	—	*3·7*	—	*26*	—	*Weymouth.*
p Plymouth	77	14th	54	12th	69·1	57·7	63·1	+ 2·7	148	0	0	48	63·8	−1·1	*	*	2	0·03	− 0·61	4·3	− 2·1	30	−14	Plymouth.
a Falmouth	74	14th	53	10th	68·3	56·1	61·8	+ 1·9	139	0	*	*	*	*	*	*	2	0·52	− 0·21	5·0	− 1·9	35	−13	Falmouth.
9. IRELAND. N.																								
a Malin Head	63	15th	51	11th	60·3	53·9	56·9	+ 0·4	104	0	*	*	*	*	*	*	4	0·20	− 0·60	*	*	*	*	* *
a, West .. *a* Blacksod Point ..	66	15th	48	10th	63·1	54·3	58·4	+ 1·0	115	0	*	*	°	*	*	*	6	0·74	− 0·34	*	*	*	*	* *
p Markree Castle ..	73	14th	49	10th	66·7	52·9	59·4	+ 3·2	122	0	0	41	60·9	*	56·5	*	5	0·46	− 0·54	3·0	− 1·2	20	− 8	Markree Castle.
a Birr Castle	74	14th	44	12th	66·4	53·0	59·3	+ 1·7	121	0	*	*	*	*	*	*	5	0·59	− 0·31	*1·7*	− *2·9*	*12*	−*20*	*Birr Castle.*
b, East .. *p* Armagh	73	15th	42	12th	67·3	51·9	59·1	+ 2·3	120	0	0	35	61·2	−0·4	58·0	−0·5	4	0·21	− 0·66	2·1	− 2·1	14	−14	Armagh.
a Donaghadee ..	67	16th	46	10th	63·0	51·7	57·0	− 0·3	105	0	*	*	*	*	*	*	4	0·18	− 0·61	*	*	*	*	* *
											0	42	61·4	−0·1	58·3	−0·4	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	37	*	*	*	*	—	—	—	3·7	− 1·6	25	−11	Phœnix Park.
a, East .. *p* Dublin, City	75	14th	47	12th	68·3	56·7	62·2	+ 2·9	141	0	0	45	*	*	*	*	4	0·29	− 0·46	*	*	*	*	Dublin City.
a Kilkenny	77	14th	45	12th	70·0	55·7	62·4	+ 4·4	143	0	*	*	*	*	*	*	3	0·44	− 0·33	*	*	*	*	* *
a Waterford	76	14, 16	45	10th	70·9	55·3	62·6	+ 3·9	144	0	*	*	*	*	*	*	4	1·09	+ 0·20	*	*	*	*	* *
a Birr Castle	74	14th	44	12th	66·4	53·0	59·3	+ 1·7	121	0	*	*	*	*	*	*	5	0·59	− 0·31	1·7	− 2·9	12	−20	Birr Castle.
a Foynes	69	16th	46	12th	63·9	53·1	58·2	− 0·2	113	0	*	*	*	*	*	*	6	0·82	− 0·09	*	*	*	*	* *
b, West .. *a* Cahir	76	14th	41	12th	69·9	53·4	61·2	+ 3·2	134	0	*	*	*	*	*	*	2	0·34	—	*	*	*	*	* *
a Killarney	78	14th	47	12th	70·4	55·4	62·5	+ 4·2	144	0	*	*	*	*	*	*	3	0·51	− 0·54	*	*	*	*	* *
a Valencia	68	15th	49	12th	64·9	55·3	59·8	+ 1·2	125	0	*	*	*	*	*	*	6	0·48	− 0·67	2·5	− 2·5	17	−17	Valencia.
a Roche's Point	76	14th	50	12th	67·6	55·9	61·4	+ 2·6	136	0	*	*	*	*	*	*	1	0·10	− 0·80	3·0	—	21	*	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	70	16th	54	12th	65·1	56·6	60·6	− 0·1	130	0	*	*	*	*	*	*	5	1·54	+ 0·98	3·9	− 3·5	27	−24	Scilly.
a Jersey, St. Aubins ..	76	15th	55	10th	68·9	58·0	63·1	+ 0·5	148	0	°	*	*	*	*	*	3	0·10	− 0·47	5·9	− 2·0	41	−14	St. Heliers.
a Guernsey (Villa Carey)	74	15th	54	10, 11	68·7	56·7	62·3	+ 0·6	142	0	0	49	63·1	−2·0	60·5	−1·7	3	0·05	− 0·55	6·1	− 1·8	43	−13	Guernsey.*

Additional Sunshine Means:—*Bognor, 4·4 hrs. 31 %; Ramsgate, 5·8 hrs. 40 %; Rhyl, 3·8 hrs. 26 %; Salcombe, 5·0 hrs. 35 %; Tenby, 3·8 hrs. (−2·5) 26 % (−18); Torquay, 4·7 hrs. (−2·1) 33 % (−15).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, August 16th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	54	53	53·7	+0·6	SCOTLAND, W. ..	Lamlash	59	56	57·4	+1·3
	Kirkwall	58	55	56·2	+0·4		Ballantrae	61	55	57·7	+0·6
	Wick	54	52	52·9	−0·5	ENGLAND, N.W. ..	Port Erin	58	56	56·6	−0·7
SCOTLAND, E. ..	Cromarty	58	56	57·3	+0·6	ENGLAND, S.W. ..	Newquay	61	59	59·3	−2·6
	Pennan Bay	60	58	58·8	+2·4		Scilly	62	60	61·0	—
	Aberdeen, Cove Bay	55	54	54·3	−1·2		Plymouth‡	62	60	60·8	−0·2
ENGLAND, N.E. ..	Burnmouth, Berwick	57	53	54·5	−0·7		Salcombe	63	60	61·4	+1·3
	Scarborough	59	55	56·3	−1·3	IRELAND, N.W. ..	Sheephaven	61	59	59·6	−0·7
ENGLAND, E. ..	Shipwash Lightship	62	57	60·5	−2·5		Teelin	62	58	59·3	−2·3
ENGLAND, S.E. ..	Eastbourne‡	63	62	62·7	−1·6	IRELAND, S.W. ..	Cleggan	61	58	59·5	+1·4
							Seafield	66	59	62·5	+1·1
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905 An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-THIRD WEEK—August 10th to August 16th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	72	41	61·1	49·4	54·9	+ 0·1	90	+ 1	0	0	3	− 2	0·23	−0·69	3·0	−0·9	19	− 6
Eastern.																		
1. SCOTLAND, EAST ...	77	37	65·0	48·1	56·1	+ 0·2	99	+ 1	0	0	3	− 1	0·16	−0·58	2·9	−2·0	19	−13
2. ENGLAND, N.E.	74	42	65·1	51·4	57·8	− 0·2	111	− 1	0	0	2	− 2	0·11	−0·47	3·5	−1·8	23	−12
3. ENGLAND, EAST ...	74	41	66·7	52·3	59·0	− 1·0	119	− 7	0	0	3	0	0·36	−0·19	4·6	−1·5	32	−10
4. MIDLAND COUNTIES ...	76	41	68·0	53·0	60·0	+ 0·9	126	+ 7	0	0	3	− 1	0·25	−0·34	2·1	−3·5	14	−24
5. ENGLAND, S.E.	77	43	68·2	54·5	61·0	− 0·1	133	− 1	0	0	3	0	0·11	−0·44	3·8	−2·7	26	−19
Western.																		
6. SCOTLAND, WEST ...	73	39	64·1	50·7	57·0	+ 0·3	105	+ 2	0	0	3	− 2	0·19	−0·84	2·6	−2·5	17	−17
7. ENGLAND, N.W.	75	40	66·0	53·2	59·2	+ 0·9	120	+ 5	0	0	4	0	0·38	−0·42	3·1	−2·1	21	−14
8. ENGLAND, S.W.	79	43	67·7	55·7	61·4	+ 2·1	136	+ 14	0	0	3	− 1	0·34	−0·39	3·5	−2·7	24	−18
9. IRELAND, NORTH ...	74	42	64·5	53·0	58·4	+ 1·3	115	+ 10	0	0	5	0	0·40	−0·51	2·6	−1·9	17	−13
10. IRELAND, SOUTH ...	78	41	68·0	54·9	61·1	+ 2·7	134	+ 19	0	0	4	0	0·52	−0·45	2·7	−2·4	19	−17
11. ENGLISH CHANNEL ...	76	54	67·6	57·1	62·0	+ 0·3	140	+ 4	0	0	4	0	0·56	−0·04	5·3	−2·6	37	−17

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 11 Weeks, June 1st to August 16th, 1913.

0. SCOTLAND, NORTH ...	78	33	*	*	*	*	938	+ 1	0	− 2	35	−12	5·64	−2·82	4·1	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	31	*	*	*	*	1,022	− 32	0	− 1	30	−10	3·26	−3·59	5·0	−0·4	30	− 3
2. ENGLAND, N.E.	82	37	*	*	*	*	1,107	− 79	0	0	27	− 8	2·17	−3·55	5·0	−1·0	31	− 6
3. ENGLAND, EAST ...	84	38	*	*	*	*	1,192	−140	0	0	27	− 6	3·26	−2·23	5·3	−1·4	33	− 9
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	1,218	− 77	0	0	24	−10	2·27	−3·49	4·6	−1·4	29	− 9
5. ENGLAND, S.E.	84	36	*	*	*	*	1,266	−133	0	0	22	− 9	2·45	−2·76	5·4	−1·5	34	− 9
Western.																		
6. SCOTLAND, WEST ...	80	35	*	*	*	*	1,075	− 42	0	0	32	−10	4·39	−4·41	5·6	−0·2	34	− 1
7. ENGLAND, N.W.	79	36	*	*	*	*	1,151	− 76	0	0	32	− 6	4·72	−2·42	5·7	−0·3	35	− 1
8. ENGLAND, S.W.	83	34	*	*	*	*	1,231	− 64	0	0	25	−12	2·74	−4·08	6·3	−0·2	40	− 2
9. IRELAND, NORTH ...	77	35	*	*	*	*	1,027	−102	0	0	37	−10	5·22	−2·79	4·6	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	38	*	*	*	*	1,175	− 74	0	0	35	− 5	4·26	−3·53	5·3	−0·2	33	− 1
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	1,296	−104	0	0	28	− 9	2·83	−2·62	6·7	−1·3	43	− 9

THE YEAR.—Aggregates, &c., for the Period of 33 Weeks, December 29th, 1912, to August 16th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,343	− 42	424	−133	141	−10	27·33	−1·97	3·1	−0·5	23	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,467	−118	601	− 19	122	− 2	16·49	−1·62	3·7	−0·6	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	1,692	− 46	406	− 69	113	+ 1	13·46	−0·74	3·7	−0·9	28	− 7
3. ENGLAND, EAST ...	84	20	*	*	*	*	1,972	− 51	303	−218	108	0	12·62	−1·19	4·2	−0·8	32	− 6
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	1,928	− 86	392	−141	111	+ 3	16·06	+0·59	3·5	−1·0	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	2,073	− 93	221	−160	104	+ 2	14·73	−0·09	4·3	−0·7	33	− 5
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	1,642	− 67	323	−102	132	+ 1	25·34	−1·28	3·8	−0·6	28	− 5
7. ENGLAND, N.W.	79	10	*	*	*	*	1,773	− 78	298	− 88	128	+ 9	21·01	+1·58	4·0	−0·5	30	− 4
8. ENGLAND, S.W.	83	19	*	*	*	*	1,982	− 78	221	− 80	125	+ 8	23·22	+2·32	4·4	−0·5	33	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	1,659	−130	297	− 48	147	+ 5	23·39	+1·42	3·6	−0·5	28	− 3
10. IRELAND, SOUTH ...	79	22	*	*	*	*	1,948	−120	243	− 16	147	+21	26·67	+3·36	4·0	−0·5	30	− 4
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	2,254	− 65	38	− 71	123	− 1	17·66	+0·29	4·8	−1·2	37	− 9

M.O., August 20, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 34. THIRTY-FOURTH WEEK, SUNDAY, AUGUST 17TH, TO SATURDAY, AUGUST 23RD, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d

I.—General Remarks.

Weather. In the first half of the week the weather was dry and generally fair to bright, but later rain fell in all parts of the Kingdom, the quantity being large at many places in the west and north-west of Great Britain, but generally slight in the south and east. Thunderstorms or thunder only occurred at a few stations on the 23rd.

Temperature was above the average except in Scotland and in England North-West, the greatest divergence being +1°·8 in Ireland South. The highest of the maxima occurred over the Kingdom generally on the 21st or 22nd, and ranged from 80° in the Midland Counties to 72° in Scotland North and England North-West. The lowest of the minima, which at many stations were also recorded on the 20th or 21st, varied from 35° in Scotland North and East to 44° in Ireland South, and to 49° in the English Channel. The lowest grass readings were 30° at Crathes and Southport, and 31° at West Linton, Birmingham, Newton Rigg, and Armagh. As a general rule the temperature of the earth was below the normal both at a depth of 1 foot and 4 feet, but in a few localities it was above it at 1 foot, and at Dublin and Manchester a little above it at 4 feet.

Mean Temperature of the Sea. The water was warmer than during the corresponding week of last year on practically all parts of the coast, and in most localities its temperature was above the average also. The mean for the week ranged from about 62° at Seafield, on the south coast of Devon, and at Eastbourne to 55° at Burnmouth and Aberdeen, and to 54° at Wick and Lerwick.

Rainfall was less than the average except in Scotland North and West and England North-West, the deficit being large in several localities. At some places in the west of Scotland, the north-west of England and in Wales, the fall was very heavy on the 21st and 22nd. On the former date 1·4 in. fell at Poltalloch, and 2 in. at Aspatria, and on the latter 1·1 at Cheadle, and 1·6 in. at Aberdovey. On the 22nd about ¾ in. fell at Nottingham and Spurn Head.

Bright Sunshine was less than the normal in all the central and eastern parts of England, above it in the western and northern parts of the Kingdom. In England East and North-East and the Midland Counties, the daily mean was 4·5 hours or less, while the percentage of the possible amount in England North-East was only 29. In the North and West the daily mean was between 6 and 7 hours. In the English Channel it was as much as 8·5 hours, the percentage of the possible duration being 61.

Barometer and Wind. Until Wednesday evening the pressure distribution was anticyclonic, and the wind light and chiefly between North and North-East. From that time, however, the conditions became cyclonic, a large depression extending over the west and north of these Islands from the Atlantic, and its small secondaries travelling in an easterly direction on a course further south. The wind shifted to South-West or West very generally, and increased considerably in force. A high wind was experienced in the English Channel, and a gale on the extreme north coast of Ireland.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 135.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate
	Rainfall ...	Moderate	Light	Moderate	Light	Moderate	Very light	Moderate	Heavy	Light	Moderate	Light	Moderate
	Sunshine ...	Very abundant	Abundant	Scanty	Scanty	Scanty	Moderate	Abundant	Abundant	Abundant	Very abundant	Abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 12 weeks from June 1st, 1913.	Warmth ...	3 * 3	1 * 4	2 * 5	2 * 5	2 * 5	1 * 6	2 * 4	2 * 5	4 * 5	2 * 5	3 * 4	0 * 6
	Rainfall ...	2 * 7	1 * 9	0 * 9	1 * 4	0 * 8	1 * 8	2 * 6	3 * 7	1 *10	1 * 7	2 * 8	1 * 5
	Sunshine ...	4 * 5	4 * 4	3 * 7	1 * 7	1 * 8	1 * 7	4 * 5	5 * 5	3 * 4	5 * 6	4 * 4	3 * 8

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(31458—24.) Wt. 196—786. 450. 8/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	61	18th	48	17th	59·0	50·3	54·4	—	87	0	•	•	54·9	•	•	•	3	0·51	—	6·2	—	41	—	Baltasound.
a Islands .. a Lerwick	60	22nd	43	20th	58·3	50·0	53·9	+ 1·8	83	0	•	•	•	•	•	•	1	0·45	—	4·9	+ 1·1	33	+ 7	Deerness.
a Stornoway	64	17, 18, 19	44	19th	61·9	48·6	54·9	+ 1·1	90	0	•	•	•	•	•	•	4	0·87	- 0·09	7·6	+ 3·4	52	+23	Stornoway.
a Castlebay, Barra Isd.‡..	62	18, 20	51	17th	60·3	53·4	56·6	+ 2·2	102	0	•	•	•	•	•	•	4	0·59	—	7·0	—	48	—	Castlebay.
b, Mainland. a Wick	63	22nd	35	20th	58·9	45·9	52·0	- 2·0	70	0	•	•	•	•	•	•	3	0·31	- 0·33	•	•	•	•	
p Strathpeffer ..	72	20th	41	18th	66·3	47·9	56·6	+ 1·8	102	0	•	•	•	•	•	•	5	0·34	- 0·24	6·0	+ 2·1	41	+14	Strathpeffer.
p Glencarron ..	67	19th	41	22nd	61·8	44·9	52·8	- 0·5	76	0	•	•	•	•	•	•	4	2·08	+ 0·88	•	•	•	•	
p Fort Augustus..	72	20th	37	19th	64·1	46·4	54·3	- 1·0	86	0	•	•	•	•	•	•	4	1·03	+ 0·21	6·3	+ 3·4	43	+23	Fort Augustus.
p Fort William ..	71	19, 20	40	19th	65·9	46·9	55·8	+ 0·3	97	0	•	•	•	•	•	•	4	2·22	+ 0·78	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	70	20, 21	37	20th	64·1	47·3	55·2	- 0·4	92	0	1	30	57·9	+0·7	55·0	-0·7	—	—	—	6·7	—	46	—	Crathes S.
a Nairn	69	20th	37	20th	63·9	46·0	54·4	- 1·0	87	0	•	•	•	•	•	•	3	0·24	- 0·49	5·1	—	35	—	Gordon Castle.
a Aberdeen ..	69	22nd	45	18th	64·6	49·9	56·8	+ 1·1	104	0	•	•	•	•	53·9	-0·3	3	0·32	- 0·31	8·1	+ 3·3	56	+23	Aberdeen.
a Balmoral ..	73	19th	35	18th	64·4	44·0	53·6	+ 1·1	81	0	0	32	•	•	•	•	5	0·35	- 0·46	•	•	•	•	Balmoral.
p Crieff	77	20th	40	20th	67·9	47·1	56·9	+ 0·4	104	0	•	•	•	•	•	•	4	0·42	- 0·51	7·7	—	53	—	Balruddery.
a Leith	72	20th	47	20th	66·9	50·7	58·3	+ 0·6	114	0	•	•	•	•	•	•	1	0·16	- 0·46	•	•	•	•	
p West Linton ..	69	20th	37	18th	63·0	44·4	53·1	- 1·1	78	0	0	31	•	•	•	•	4	0·80	—	5·4	—	38	—	West Linton.
p Marchmont ..	78	20th	42	20th	64·4	47·3	55·3	+ 0·5	93	0	0	37	58·1	+1·3	•	•	3	0·36	- 0·39	5·4	+ 0·7	38	+ 5	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	70	22nd	40	20th	65·0	49·6	56·8	+ 0·7	104	0	0	38	57·0	+0·7	55·1	-0·6	3	0·23	- 0·45	5·3	—	37	—	Cockle Park.
a Shields	69	22nd	48	20th	63·4	52·0	57·4	+ 0·4	108	0	•	•	•	•	•	•	2	0·31	- 0·28	•	•	•	•	
p Durham	69	20th	41	20th	61·6	48·3	55·5	- 1·6	95	0	0	38	•	•	•	•	4	0·46	- 0·09	3·6	- 1·1	25	- 7	Durham.
a, North .. p Rounton	68	20th	43	20th	63·4	48·0	55·2	- 1·3	92	0	0	37	57·9	•	•	•	3	0·81	+ 0·23	•	•	•	•	Rounton.
a West Witton	72	20th	42	20th	63·4	50·3	56·5	—	102	0	0	38	58·2	•	54·1	•	4	0·54	—	•	•	•	•	West Witton.
p Scarborough	69	22nd	50	20th	65·1	54·3	59·4	+ 1·6	122	0	•	•	•	•	59·0†	•	3	0·28	- 0·32	3·7	—	26	—	Scarborough.
p York	74	20th	45	21st	67·1	51·1	58·6	+ 0·4	116	0	•	•	58·6	-0·8	56·6	-1·0	3	0·53	- 0·03	3·8	- 0·9	27	- 6	York.
											0	41	58·4	-0·9	55·3	-1·5	—	—	—	3·7	—	26	—	Hull.
b, South .. a Spurn Head	73	21st	51	21, 22	64·9	52·3	58·2	- 0·7	113	0	•	•	•	•	•	•	2	0·92	+ 0·47	4·4	—	31	—	Spurn Head.
a Lincoln	76	21st	45	21st	66·0	52·7	59·9	+ 0·8	125	0	•	•	61·0	+0·6	57·9	-0·2	2	1·00	+ 0·59	•	•	•	•	Lincoln.
a Fulbeck	78	21st	42	20th	69·0	49·7	58·8	- 0·2	118	0	0	34	60·9	-1·7	57·2	-2·2	4	0·46	- 0·10	3·8	—	27	—	Rauceby.
											•	•	•	•	•	•	—	—	—	4·3	—	30	—	Skegness.
3. ENGLAND, E.											0	44	61·9	-1·0	59·5	-1·0	—	—	—	4·1	—	29	—	Lowestoft.
p Cromer	74	21st	50	17, 21	65·9	53·6	59·4	+ 0·9	122	0	•	•	•	•	•	•	4	0·21	—	3·4	—	24	—	Cromer.
p Little Massingham ..	78	21st	47	21st	66·7	52·3	59·1	+ 0·2	120	0	0	43	•	•	•	•	4	0·16	- 0·47	4·0	- 1·7	28	-11	Lit. Massingham.
a, North .. a Yarmouth	71	22nd	48	21, 22	64·1	52·7	58·1	- 1·3	113	0	•	•	62·4	-1·7	60·0	-2·3	3	0·23	- 0·30	3·8	—	27	—	Yarmouth.
a Norwich	76	21st	41	17, 21	67·3	52·3	59·4	- 0·2	122	0	0	40	60·7	•	•	•	4	0·15	—	4·3	—	31	—	Norwich.
p Gelderston	75	21, 22	43	17th	67·1	51·1	58·6	- 0·4	116	0	•	•	•	•	•	•	3	0·24	- 0·26	4·1	- 1·9	29	-14	Gelderston.
p Cambridge	78	21st	42	21st	69·6	52·6	60·6	+ 0·6	130	0	0	37	62·2	+0·1	59·1	-1·4	2	0·29	- 0·23	5·2	- 0·7	37	- 5	Cambridge.
a Felixstowe	78	21st	49	17, 21	67·4	54·1	60·4	- 0·1	129	0	•	•	•	•	•	•	3	0·14	—	5·7	—	40	—	Felixstowe.
a Clacton-on-Sea ..	76	21st	49	21st	66·9	54·1	60·1	- 0·6	127	0	0	44	61·0	-0·5	59·3	-1·3	1	0·08	—	5·5	—	39	—	Clacton.
b, South .. a Rothamsted	75	21st	48	21st	68·0	52·9	60·0	+ 1·4	126	0	•	•	•	•	•	•	2	0·10	- 0·47	5·2	- 0·7	37	- 5	Rothamsted.
a Shoeburyness	75	21st	50	17th	67·1	54·4	60·4	- 1·3	129	0	0	44	64·4	-1·5	•	•	1	0·09	- 0·31	5·2	—	37	—	Southend.
p Tottenham	78	21st	50	21st	70·6	55·4	62·5	+ 2·3	144	0	0	45	•	•	61·5	-0·8	2	0·44	—	4·9	—	35	—	Tottenham.
4. MIDLAND COUNTIES.											0	37	59·2	-1·3	55·9	-1·5	—	—	—	3·7	—	26	—	Huddersfield.
a Harrogate	72	20th	44	20th	63·7	50·0	56·4	- 0·1	101	0	0	38	57·0	+0·2	56·0	-0·1	3	0·66	+ 0·03	4·1	—	29	—	Harrogate.
a Bawtry	74	21st	42	20th	68·6	49·6	58·5	+ 0·1	116	0	0	34	58·6	•	56·3	•	2	0·71	+ 0·19	1·9	- 2·7	13	-19	Worksop.
p Buxton	66	21st	37	19th	62·1	47·0	54·1	- 1·2	85	0	0	37	57·9	-0·6	54·5	-1·0	3	1·19	+ 0·19	4·8	—	34	—	Buxton.
a, East .. a Nottingham	75	21st	44	20th	69·0	49·6	58·7	+ 0·1	117	0	0	40	60·0	+0·4	58·2	-1·2	2	0·83	+ 0·29	3·6	—	26	—	Nottingham.
p Birmingham, Edgbsn.	72	21st	46	19th	65·3	52·1	58·8	+0·6	118	0	0	31	56·7	+0·2	53·4	-1·2	3	0·39	- 0·22	3·8	—	27	—	Birmingham.
a Raunds	80	21st	43	21st	70·3	50·3	59·7	+ 0·9	124	0	0	35	60·2	•	57·3	•	2	0·10	—	•	—	•	•	Raunds.
p Oxford	75	21st	44	19th	69·6	52·6	60·6	+ 1·0	130	0	0	38	•	•	•	•	2	0·10	- 0·40	5·9	+ 0·1	42	+ 1	Oxford.
											0	39	58·0	-0·8	55·1	-0·7	—	—	—	3·2	—	22	—	Sheffield.
a Cheadle	73	21st	44	19th	66·0	50·9	58·0	+ 1·5	112	0	0	40	•	•	•	•	2	1·15	+ 0·39	•	•	•	•	Cheadle.
p Shrewsbury	73	21st	38	19th	68·9	49·0	58·4	0·0	115	0	0	33	•	•	•	•	1	0·83	—	•	•	•	•	Shrewsbury.
b, West .. a Hereford	74	20, 21	39	20th	69·4	51·1	59·7	+ 0·8	124	0	0	35	•	•	•	•	2	0·42	- 0·13	•	•	•	•	Hereford.
a Cirencester	72	21st	42	20, 21	67·7	50·6	58·6	+ 0·9	116	0	0	41	60·4	•	58·2	•	2	0·17	- 0·48	5·8	+ 0·1	41	+ 1	Cirencester.
a Bath	74	17th	45	19, 21	70·9	51·3	60·5	+ 1·2	130	0	•	•	•	•	•	•	1	0·10	- 0·51	6·8	—	48	—	Bath.
5. ENGLAND, S.E.											0	40	63·6	+1·4	59·2	-2·1	—	—	—	•	•	•	•	Canterbury.
p Kew	75	21st	50	21st	68·6	55·4	61·6	+ 1·6	137	0	0	39	61·1	-0·8	57·9	-1·3	1	0·17	- 0·35	5·1	- 0·8	36	- 6	Kew.
a Marlborough	73	21st	37	19th	70·3	48·3	58·6	+ 1·2	116	0	0	34	—	—	57·5	•	1	0·04	- 0·56	5·9	+ 0·3	42	+ 2	Marlborough.
a Margate	74	21st	49	17th	66·9	51·6	60·4	- 0·8	129	0	0	41	59·3	-2·9	57·0	-3·4	3	0·07	- 0·38	4·9	- 1·1	35	- 7	Margate.
a Wisley, Surrey ..	78	21st	46	21st	69·9	54·0	61·5	+ 0·7	137	0	0	34	61·5	-0·6	58·6	-2·2	2	0·23	—	5·2	—	37	—	Wisley.
											0	44	63·4	-0·4	60·4	-1·0	—	—	—	6·2	—	44	—	Worthing.
p Salisbury (Wilton) ..	75	21st	45	21st	72·9	51·6	61·6	+ 1·6	137	0	0	42	63·7	•	•	•	1	0·16	- 0·42	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	68	21st	47	17, 21	61·9	53·0	58·6	- 2·2	116	0	•	•	•	•	•	•	1	0·04	- 0·41	5·7	—	41	—	Littlestone.
p Hastings..	71	21st	52	21st	65·9	54·6	59·9	- 0·8	125	0	0	46	62·4	•	60·1	•	2	0·06	- 0·48	6·2	- 0·5	44	- 3	Hastings.
p Southampton	75	21st	48	21st	70·9	55·1	62·5	+ 1·1	144	0	0	44	•	•	•	•	1	0·05	- 0·54	6·2	- 0·3	44	- 2	Southampton.
a Ventnor	70	21st	54	21st	66·7	56·6	61·4	- 0·3	136	0	0	44	•	•	•	•	3	0·18	- 0·32	6·9	+ 0·7	49	+ 2	Ventnor.
											0	46	64·1	-0·1	61·0	-1·2	—	—	—	6·4	—	46	—	Portsmouth.
											•	•	62·5	•	60·2	•	—	—	—	5·9	- 0·6	42	- 4	Eastbourne.
											•	•	61·8	•	60·7	•	—	—	—	7·7	—	55	—	Bournemouth.
LONDON.											0	46	•	•	61·2	•	—	—	—	5·9	- 0·9	42	- 7	Brighton.
a Westminster	76	21st	49	21st	70·0	56·3	62·7	+ 2·1	145	0	0	41	•	•	•	•	2	0·26	- 0·26	4·9	- 0·3	35	- 2	Westminster.
a Greenwich	80	21st	49	21st	70·4	54·3	61·9	+ 0·8	139	0	0	38	•	•	•	•	2	0·36	- 0·11	5·0	- 1·5	36	-10	Greenwich.
a Hampstead	73	17th	49	20, 21	68·4	53·1	60·3	—	128	0	0	36	•	•	•	•	3	0·22	—	4·8	—	34	—	Hampstead.
a Camden Square ..	80	21st	48	21st	71·9	54·9	62·9	—	146	0	0	47	•	•	•	•	2	0·27	—	4·8	—	34	—	Camden Square.
6. a, SCOTLAND, W.																								
a Poltalloch .. S	69	20th	40	20th	64·6	46·9	55·2	- 1·2	92	0	•	•	•	•	•	•	4	2·17	+ 1·07	•	•	•	•	
p Glasgow	69	20th	44	18, 20	64·6	50·1	56·9	+ 1·1	104	0	0	33	•	•	•	•	4	0·57	- 0·33	5·0	+ 0·9	35	+ 6	Glasgow.
p Rothesay	72	20th	45	19th	66·6	50·4	58·0	+ 1·8	112	0	0	34	•	•	58·0	-1·0	4	1·36	+ 0·27	•	•	•	•	
a Kilmarnock	70	20th	39	19th	65·3	46·0	55·1	- 0·8	92	0	•	•	•	•	•	•	4	1·07	—	6·1	—	42	—	Kilmarnock.
a Colmonell	73	20th	36	20th	65·9	46·9	55·8	- 1·0	97	0	0	32	•	•	•	•	4	1·19	+ 0·22	•	•	•	•	
p Dumfries	70	20th	42	20th	64·7	49·6	56·7	- 0·7	103	0	0	36	60·2	•	59·0	•	3	0·85	- 0·03	5·4	—	38	—	Dumfries.
p Cally, Gatehouse	69	20th	40	20th	64·7	48·4	55·0	- 0·5	91	0	•	•	•	•	•	•	4	1·27	+ 0·21	•	•	•	•	
b I. OF MAN.																								
p Douglas	69	20, 21	46	20, 21	64·0	49·7	56·4	+ 0·1	101	0	0	43	•	•	•	•	4	0·55	- 0·40	7·0	+ 1·5	49	+11	Douglas.
											0	34	57·4	-0·4	55·1	-1·0	—	—	—	5·3	—	37	—	Burnley.
7, a, ENGLAND, N.W.											•	•	•	•	•	•	—	—	—	•	—	—	—	Hoylake.
p Aspatria	69	20th	42	18th	64·9	49·7	56·8	+ 0·3	104	0	0	36	58·9	•	55·2	•	4	2·47	+ 1·48	6·1	—	42	—	Aspatria.
p Newton Rigg	72	20th	37	19th	64·7	46·1	54·8	- 0·5	90	0	0	31	59·3	+0·5	56·5	-0·1	5	1·11	+ 0·32	5·2	+ 0·4	36	+ 3	Newton Rigg.
p Stonyhurst	68	21st	43	20th	63·9	49·6	56·3	- 0·4	100	0	0	35	•	•	•	•	3	1·33	+ 0·24	5·8	+ 1·0	41	+ 7	Stonyhurst.
p Blackpool	68	18, 21	39	19th	65·0	49·6	56·8	- 1·2	104	0	0	35	59·5	•	56·0	•	3	0·97	+ 0·13	6·7	+ 1·6	47	+11	Blackpool.
p Manchester (Whit. Pk.)	71	21st	43	19th	66·1	50·9	58·0	+ 0·1	112	0	0	42	•	•	•	•	3	1·25	+ 0·61	4·0	0·0	28	0	Whit. Park.
a Liverpool (Bidston) ..	67	21st	48	19th	64·1	53·3	58·4	+ 0·7	115	0	0	44	•	•	•	•	3	0·88	+ 0·17	6·2	—	43	—	Liverpool.
a Hawarden Bridge ..	69	21st	45	19th	65·4	52·7	58·7	- 0·6	117	0	1	30	62·1	+0·1	60·1	-1·0	3	0·95†	+ 0·29	6·2	+ 0·8	43	+ 6	Southport.
b, NORTH WALES.											0	39	60·4	+0·3	60·8	+1·2	—	—	—	4·0	—	28	—	Manchester (City)
p Llandudno	68	17th	46	20th	65·3	52·6	58·6	- 0·5	116	0	•	•	•	•	•	•	3	0·94	+ 0·29	7·5	+ 2·3	52	+16	Llandudno.
a Holyhead	65	17, 20	48	20th	63·6	53·3	58·1	- 0·5	113	0	•	•	•	•	•	•	3	0·78	+ 0·08	7·1	—	50	—	Holyhead.
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	7·5	—	53	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				7·8	—	55	—	
a Llangammarch Wells	74	17th	37	20th	67·1	48·4	57·2	+ 0·5	106	0	0	34	60·0	+0·9	55·9	-0·1	3	1·06	—	6·0	—	43	—	Aberystwyth.
a Pembroke	67	17th	49	20th	63·9	54·1	58·7	+ 0·4	117	0	•	•	•	•	•	•	2	0·64	- 0·03	7·0	—	50	—	Llangammarch
p Cardiff	75	17th	48	20th	68·4	54·1	60·8	+ 1·1	132	0	0	39	61·8	0·0	59·3	-0·6	3	0·30	- 0·66	*6·8*	—	*48*	—	Pembroke.[Wells. *Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	75	17th	48	20th	70·4	54·4	61·9	+ 1·7	139	0	0	44	•	•	•	•	3	0·34	- 0·45	*7·2*	—	*51*	—	*Clifton.*
a Shaftesbury	74	17th	45	19th	67·6	52·0	59·3	+ 1·1	121	0	•	•	61·5	•	59·1	•	3	0·10	- 0·58	•	•	•	•	Shaftesbury.
a Arlington	73	17th	48	19th	66·3	52·7	59·1	+ 1·8	120	0	•	•	•	•	•	•	3	0·72	- 0·41	•	•	•	•	Arlington.
a Newquay	*69*	*21st*	*45*	*20th*	*65·3*	*54·1*	*59·4*	*- 0·2*	*122*	*0*	•	•	63·0	•	•	•	*3*	*0·32*	*- 0·21*	7·3	+ 0·7	52	+ 6	Newquay.
a Cullompton	76	17th	41	20th	71·4	51·6	60·9	+ 2·1	132	0	0	39	64·5	•	•	•	3	0·14	- 0·53	6·6	+ 0·8	47	+ 6	Cullompton.
a Portland	67	17th	56	18, 19, 20	64·9	57·4	60·9	+ 0·2	132	0	•	•	•	•	•	•	2	0·13	—	*7·6*	—	*54*	—	*Weymouth.*
p Plymouth	72	17th	50	19th	68·9	55·7	61·9	+ 1·8	139	0	0	42	64·5	+1·5	•	•	1	0·01	- 0·63	6·4	+ 0·2	46	+ 1	Plymouth.
a Falmouth	71	17, 20, 21	52	20th	67·9	56·1	61·7	+ 2·2	138	0	•	•	•	•	•	•	4	0·27	- 0·47	7·0	+ 0·3	50	+ 2	Falmouth.
9. IRELAND. N.																								
a Malin Head	66	19, 20	49	19th	62·0	52·7	57·1	+ 0·8	106	0	•	•	•	•	•	•	4	1·09	+ 0·31	•	•	•	•	
a, West .. *a* Blacksod Point	66	18, 19, 20	48	17th	64·4	53·1	58·4	+ 1·4	115	0	•	•	•	•	•	•	4	0·97	- 0·13	•	•	•	•	
p Markree Castle ..	71	18, 19, 20	39	17, 19	67·6	46·6	56·5	+ 0·7	102	0	0	32	61·1	•	57·0	•	4	0·79	- 0·20	5·4	+ 1·3	38	+ 9	Markree Castle.
a Birr Castle	71	19, 20	44	19th	66·9	49·9	57·9	+ 0·8	111	0	•	•	•	•	•	•	4	0·55	- 0·34	*5·3*	+ *0·7*	*38*	+ *5*	*Birr Castle.*
b, East .. *p* Armagh ..	73	20th	40	19th	66·7	49·0	57·3	+ 1·0	107	0	0	31	60·9	+0·8	58·1	-0·2	3	0·65	- 0·20	7·3	+ 3·2	51	+22	Armagh.
a Donaghadee	67	21st	44	20th	64·3	49·9	56·7	- 0·1	103	0	•	•	•	•	•	•	3	0·46	- 0·31	•	•	•	•	
10. IRELAND, S.											0	42	62·8	+2·4	58·9	+0·4	—	—	—	•	•	•	•	Trinity Coll.
p Dublin, City	70	20th	47	19, 20	66·0	52·4	58·8	0·0	118	0	0	35	•	•	•	•	—	—	—	6·7	+ 1·5	47	+11	Phœnix Park.
a East .. *a* Kilkenny	73	19, 20	44	19th	69·0	51·9	59·9	+ 2·5	125	0	0	45	•	•	•	•	3	0·28	- 0·46	•	•	•	•	Dublin City.
a Waterford	73	17th	48	23rd	68·4	53·0	60·2	+ 2·1	127	0	•	•	•	•	•	•	3	0·49	- 0·32	•	•	•	•	
																	2	0·52	- 0·36	•	•	•	•	
a Birr Castle	71	19, 20	44	19th	66·9	49·9	57·9	+ 0·8	111	0	•	•	•	•	•	•	4	0·55	- 0·34	5·3	+ 0·7	38	+ 5	Birr Castle.
a Foynes	70	20th	48	17th	66·8	52·6	59·3	+ 1·4	121	0	•	•	•	•	•	•	2	0·64	- 0·25	•	•	•	•	
b, West .. *a* Cahir	74	17th	46	23rd	68·7	51·9	59·8	+ 2·3	125	0	•	•	•	•	•	•	3	0·59	—	•	•	•	•	
a Killarney	76	18, 19	49	18th	70·9	53·5	61·7	+ 3·8	138	0	•	•	•	•	•	•	3	0·60	- 0·46	•	•	•	•	
a Valencia	69	17, 20	49	18th	65·9	53·1	59·1	+ 0·9	120	0	•	•	•	•	•	•	4	0·83	- 0·31	7·2	+ 2·3	51	+17	Valencia.
a Roche's Point	71	20th	53	18, 20, 23	66·4	55·1	60·4	+ 1·9	129	0	•	•	•	•	•	•	4	0·62	- 0·28		—		—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	69	21st	54	20th	66·6	56·6	61·3	+ 0·9	135	0	•	•	•	•	•	•	3	0·21	- 0·33	6·5	- 0·7	43	- 5	Scilly.
a Jersey, St. Aubins ..	74	17, 22	49	21st	69·0	56·0	62·1	- 0·3	141	0	•	•	•	•	•	•	1	0·13	- 0·47	9·2	+ 1·6	66	+11	St. Heliers.
a Guernsey (Villa Carey)	73	17th	52	20th	68·6	55·1	61·5	+ 0·1	137	0	0	43	64·1	-0·1	61·4	-0·9	2	0·42	- 0·23	9·7	+ 2·1	69	+15	Guernsey.*

Additional Sunshine Means:—*Bognor, 6·3 hrs. 45 %; Ramsgate, 5·5 hrs. 39 %; Rhyl, 7·2 hrs. 50 %; Salcombe, 6·6 hrs. 47 %; Tenby, 7·5 hrs. (+1·4) 53 % (+10); Torquay, 6·8 hrs. (+0·2) 49 % (+2).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, August 23rd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	55	54	54·1	+1·2	SCOTLAND, W. ..	Lamlash	63	54	57·6	+1·6
	Kirkwall	58	55	56·6	+1·3		Ballantrae	60	55	57·7	+0·6
	Wick	54	53	53·8	+0·4	ENGLAND, N.W. ..	Port Erin	59	56	56·9	-0·1
SCOTLAND, E. ..	Cromarty	58	56	57·7	+1·5		Newquay	61	61	61·0	-0·6
	Pennan Bay	60	57	58·6	+3·0	ENGLAND, S.W. ..	Scilly	62	59	60·7	—
	Aberdeen, Cove Bay	56	55	55·2	+0·3		Plymouth‡	62	61	62·0	+1·5
ENGLAND, N.E. ..	Burnmouth, Berwick	56	53	55·1	+0·4		Salcombe	64	60	62·0	+2·0
	Scarborough	60	55	57·5	+0·5	IRELAND, N.W. ..	Sheephaven	62	58	59·7	-0·2
ENGLAND, E. ..	Shipwash Lightship	63	59	60·9	-2·0		Teelin	64	59	61·1	+0·8
ENGLAND, S.E. ..	Eastbourne‡	63	62	62·3	-1·5	IRELAND, S.W. ..	Cleggan	60	56	58·4	+0·6
							Seafield	65	58	62·3	+1·9
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905 An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-FOURTH WEEK—August 17th to August 23rd, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	72	35	62·3	47·2	54·3	− 0·1	86	− 1	0	0	4	0	1·04	+0·04	6·2	+2·5	42	+17
Eastern.																		
1. SCOTLAND, EAST ...	77	35	64·9	47·1	55·5	− 0·1	95	0	0	0	3	− 1	0·36	−0·39	6·5	+1·7	44	+12
2. ENGLAND, N.E.	78	40	65·5	50·9	57·8	+ 0·3	111	+ 2	0	0	3	− 1	0·56	−0·06	4·1	−0·9	29	− 7
3. ENGLAND, EAST ...	78	41	67·4	53·0	59·8	+ 0·4	125	+ 3	0	0	3	− 1	0·21	−0·35	4·5	−1·4	32	−10
4. MIDLAND COUNTIES ...	80	38	68·2	50·6	58·9	+ 0·5	118	+ 3	0	0	2	− 1	0·50	−0·15	4·4	−0·9	31	− 6
5. ENGLAND, S.E.	78	37	68·6	53·7	60·7	+ 0·1	131	+ 1	0	0	2	− 2	0·11	−0·52	5·8	−0·4	41	− 3
Western.																		
6. SCOTLAND, WEST ...	73	36	65·1	48·3	56·1	− 0·2	99	− 1	0	0	4	0	1·13	+0·04	6·0	+1·2	42	+ 9
7. ENGLAND, N.W.	72	37	64·8	50·9	57·4	− 0·5	108	− 3	0	0	3	− 1	1·18	+0·29	6·5	+1·6	45	+11
8. ENGLAND, S.W.	76	37	67·7	53·7	60·2	+ 1·3	127	+ 8	0	0	3	− 1	0·37	−0·49	6·9	+1·0	49	+ 7
9. IRELAND, NORTH ...	73	39	65·3	50·2	57·3	+ 0·8	107	+ 5	0	0	4	− 1	0·75	−0·19	6·4	+2·1	44	+15
10. IRELAND, SOUTH ...	76	44	67·7	52·6	59·7	+ 1·8	124	+ 12	0	0	3	− 2	0·57	−0·41	6·4	+1·6	45	+12
11. ENGLISH CHANNEL ...	74	49	68·1	55·9	61·6	+ 0·2	137	+ 1	0	0	2	− 2	0·26	−0·39	8·5	+1·3	61	+ 9

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 12 Weeks, June 1st to August 23rd, 1913.

0. SCOTLAND, NORTH ...	78	33	*	*	*	*	1,026	+ 2	0	− 2	39	−12	6·68	−2·78	4·3	0·0	26	0
Eastern.																		
1. SCOTLAND, EAST ...	80	31	*	*	*	*	1,117	− 32	0	− 1	33	−11	3·62	−3·98	5·1	−0·3	31	− 2
2. ENGLAND, N.E.	82	37	*	*	*	*	1,218	− 77	0	0	30	− 9	2·73	−3·61	4·9	−1·0	31	− 6
3. ENGLAND, EAST ...	84	38	*	*	*	*	1,317	−137	0	0	30	− 7	3·47	−2·58	5·2	−1·4	33	− 9
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	1,336	− 74	0	0	26	−11	2·77	−3·64	4·6	−1·3	29	− 9
5. ENGLAND, S.E.	84	36	*	*	*	*	1,397	−132	0	0	24	−11	2·56	−3·28	5·4	−1·4	35	− 9
Western.																		
6. SCOTLAND, WEST ...	80	35	*	*	*	*	1,174	− 43	0	0	36	−10	5·52	−4·37	5·7	0·0	35	0
7. ENGLAND, N.W.	79	36	*	*	*	*	1,259	− 79	0	0	35	− 7	5·90	−2·13	5·8	−0·1	36	− 1
8. ENGLAND, S.W.	83	34	*	*	*	*	1,358	− 56	0	0	28	−13	3·11	−4·57	6·3	−0·2	40	− 1
9. IRELAND, NORTH ...	77	35	*	*	*	*	1,134	− 97	0	0	41	−11	5·97	−2·98	4·7	−0·1	30	0
10. IRELAND, SOUTH ...	79	38	*	*	*	*	1,299	− 62	0	0	38	− 7	4·83	−3·94	5·4	0·0	34	0
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	1,433	−103	0	0	30	−11	3·09	−3·01	6·8	−1·1	45	− 7

THE YEAR.—Aggregates, &c., for the Period of 34 Weeks, December 29th, 1912, to August 23rd, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,431	− 41	424	−133	145	−10	28·37	−1·93	3·2	−0·4	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,562	−118	601	− 19	125	− 3	16·85	−2·01	3·8	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	1,803	− 44	406	− 69	116	0	14·02	−0·80	3·7	−0·9	28	− 7
3. ENGLAND, EAST ...	84	20	*	*	*	*	2,097	− 48	303	−218	111	− 1	12·83	−1·54	4·2	−0·8	32	− 6
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,046	− 83	392	−141	113	+ 2	16·56	+0·44	3·6	−0·9	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	2,204	− 92	221	−160	106	0	14·84	−0·61	4·4	−0·7	33	− 5
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	1,741	− 68	323	−102	136	+ 1	26·47	−1·24	3·8	−0·6	29	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	1,881	− 81	298	− 88	131	+ 8	22·19	+1·87	4·1	−0·4	31	− 3
8. ENGLAND, S.W.	83	19	*	*	*	*	2,109	− 70	221	− 80	128	+ 7	23·59	+1·83	4·4	−0·6	34	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	1,766	−125	297	− 48	151	+ 4	24·14	+1·23	3·7	−0·4	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,072	−108	243	− 16	150	+19	27·24	+2·95	4·1	−0·4	31	− 4
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	2,391	− 64	38	− 71	125	− 3	17·92	−0·10	4·9	−1·1	38	− 8

M.O., August 27, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 137

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 35. THIRTY-FIFTH WEEK, SUNDAY, AUGUST 24TH, TO SATURDAY, AUGUST 30TH, 1913. *Price 6d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was generally of a rather changeable character, but in the middle portion of the week nearly all districts experienced a large amount of bright sunshine, and a fairly high temperature. Thunderstorms occurred on Sunday in Eastern and Central England, and on Friday or Saturday in nearly all parts of the country. A faint aurora was seen on Monday night at Carrick-on-Suir.

Temperature was above the average, the excess ranging from about three and a half degrees in most of the English districts to less than a degree and a half in Ireland. The highest readings occurred very commonly between the 27th and 29th, when the thermometer rose to 80° or slightly above it in many parts of England; in Scotland North and Ireland North it did not reach 75°. The lowest readings were observed mostly during the earlier half of the week, and ranged from 36° in England South-East and 39° in the Midland Counties to 47° in Scotland North and to 48° in the English Channel. On the surface of the grass the thermometer, early on the 25th, fell to 30° at Marlborough, and to 32° at Fulbeck. At a depth of 1 foot the temperature of the soil was above the average, but at a depth of 4 feet it was in most places slightly below the normal.

Mean Temperature of the Sea was slightly above the average, and was considerably higher than in the corresponding week of last year.

Rainfall was less than the normal, especially in the western and extreme northern districts; in Ireland North the total for the week did not amount to more than a twentieth of an inch. In the west and south of England considerable falls were experienced locally on the 29th or 30th, the largest daily amounts reported being 1·0 in. at Shrewsbury on Friday, and 1·2 in. at Bognor on Saturday.

Bright Sunshine was in excess of the average in all districts excepting Scotland North and England South-West. The mean daily duration ranged from 7·5 hours (55 per cent. of the possible amount) in England North-West, and 7·4 hours in England East to 4·9 hours in Scotland East, and to only 2·9 hours (20 per cent. of the possible) in Scotland North.

Barometer and Wind. At the commencement of the week, when a depression of moderate intensity lay to the northward of Iceland, and small secondary disturbances were passing eastwards across the United Kingdom, the prevailing winds were from between South-West and North-West, and light to fresh in force. After the 25th, however, a large anticyclone extended from the southern portions of the Atlantic over practically the whole of north-western Europe, the wind becoming variable, and afterwards shifting to the North-Eastward over all the more southern portions of these Islands. Towards the end of the period a shallow cyclonic system spread gradually northwards from the Bay of Biscay, reaching our south-east coasts on the 29th, and causing the heavy local falls of rain mentioned above. The wind at the same time backed to the Northward, but remained generally moderate in force.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 139.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Light	Moderate	Light	Light	Light	Light	Light	Very light	Very light	Very light	Very light	Moderate
	Sunshine ...	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Very abundant	Very abundant	Moderate	Abundant	Abundant	Deficient

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 13 weeks from June 1st, 1913.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

PAST SEASONS.

SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *1.	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10

(31544—24.) Wt. 196—786. 450. 9/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
0. SCOTLAND, N.	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
a, Islands.. *p Baltasound* .. S	*62*	*28th*	*45*	*24th*	*59·1*	*49·3*	*53·9*	–	*83*	*0*	•	•	54·4	•	•	•	*5*	*0·17*	—	*2·0*	—	*14*	—	*Baltasound.*
a Lerwick	61	24th	48	26th	58·7	50·9	54·6	+ 2·9	88	0	•	•	•	•	•	•	4	0·46	—	2·3	- 1·5	16	-10	Deerness.
a Stornoway	67	26th	47	27th	61·6	51·0	56·0	+ 2·7	98	0	•	•	•	•	•	•	3	0·32	- 0·65	2·5	- 1·6	18	-11	Stornoway.
a Castlebay, Barra Isd.‡..	*62*	*29th*	*50*	*24th*	*58·9*	*52·9*	*55·7*	+ *1·6*	*96*	*0*	•	•	•	•	•	•	5	*0·68*	—	*2·6*	—	*19*	—	*Castlebay.*
a Wick	64	28th	48	24, 28	58·9	50·9	54·7	+ 1·2	89	0	•	•	•	•	•	•	6	0·27	- 0·36	•	•	•	•	
b, Mainland. *p* Strathpeffer ..	73	27th	48	24th	66·9	50·7	58·3	+ 4·3	114	0	•	•	•	•	•	•	4	0·34	- 0·25	3·7	- 0·2	26	- 1	Strathpeffer.
p Glencarron ..	67	29th	48	24th	60·3	51·6	55·7	+ 3·0	96	0	•	•	•	•	•	•	4	0·70	- 1·08	•	•	•	•	
p Fort Augustus..	70	27th	48	29th	63·6	52·0	57·5	+ 2·8	109	0	•	•	•	•	•	•	2	0·07	- 0·78	2·9	0·0	21	0	Fort Augustus.
p Fort William ..	67	27th	47	24th	63·1	52·0	57·2	+ 2·3	106	0	•	•	•	•	•	•	4	0·20	- 1·30	•	•	•	•	
1. SCOTLAND, E.											0	39	58·4	+2·4	55·0	-0·3	—	—	—	4·5	—	32	—	Crathes S.
p Gordon Castle.. S	73	26th	42	28th	67·0	49·0	57·5	+ 2·4	109	0	•	•	•	•	•	•	5	0·39	- 0·27	*4·5*	—	*32*	—	*Gordon Castle.*
a Nairn	73	28th	45	28th	65·9	48·7	56·8	+ 2·0	104	0	•	•	•	•	•	•	3	0·43	- 0·11	3·3	—	23	—	Nairn.
a Aberdeen ..	73	26, 28	47	28th	66·3	50·9	58·1	+ 3·0	113	0	•	•	•	•	53·9	0·0	4	0·58	- 0·03	4·3	- 0·3	31	- 2	Aberdeen.
a Balmoral ..	74	28th	40	28th	67·1	45·4	55·6	+ 3·9	95	0	0	36	•	•	•	•	4	0·45	- 0·31	•	•	•	•	Balmoral.
p Crieff	76	28th	45	28th	69·6	50·9	59·7	+ 4·1	124	0	•	•	•	•	•	•	2	0·15	- 0·73	6·2	—	44	—	Balruddery.
a Leith	74	28th	49	28, 29	66·6	52·0	58·9	+ 2·0	118	0	•	•	•	•	•	•	3	0·92	+ 0·36	•	•	•	•	
p West Linton .. S	71	27th	40	28th	66·0	46·0	55·4	+ 1·8	94	0	0	36	•	•	•	•	4	0·53	—	*5·3*	—	*38*	—	*West Linton.*
p Marchmont .. S	77	28th	45	30th	69·0	49·3	58·6	+ 4·4	116	0	0	42	58·3	+3·2	•	•	3	0·77	+ 0·05	6·0	+ 1·5	43	+11	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	75	26th	45	28th	69·1	51·4	59·7	+ 4·3	124	0	0	39	57·8	+3·4	55·2	+0·4	3	0·34	- 0·31	7·5	—	54	—	Cockle Park.
a Shields	71	25, 26	51	25, 28	66·7	52·9	59·4	+ 3·1	122	0	•	•	•	•	•	•	2	0·20	- 0·35	•	•	•	•	
p Durham	75	30th	45	26th	70·1	49·6	59·2	+ 2·5	120	0	0	41	•	•	•	•	2	1·18	+ 0·66	7·1	+ 2·6	51	-19	Durham.
a, North .. *p* Rounton	74	26-28	45	28th	70·6	49·0	59·2	+ 3·4	120	0	0	40	58·7	•	•	•	2	0·40	- 0·12	•	•	•	•	Rounton.
a West Witton	*74*	*28th*	*44*	*29th*	*70·4*	*49·1*	*59·1*	—	*120*	*0*	0	41	58·9	•	54·3	•	*1*	*0·13*	—	•	•	•	•	*West Witton.*
p Scarborough	73	26th	51	25th	66·4	54·3	60·0	+ 2·9	126	0	•	•	•	•	59·0†	•	2	0·22	- 0·33	6·9	—	50	—	Scarborough.
p York	78	30th	48	25, 26	72·4	51·6	61·4	+ 3·8	136	0	•	•	59·0	+0·7	56·8	-0·4	2	0·08	- 0·45	6·2	+ 1·7	45	+12	York.
											0	42	57·9	+0·1	56·0	-0·6	—	—	—	*4·2*	—	*30*	—	*Hull.*
a Spurn Head	70	25th	51	24th	66·1	53·0	59·2	+ 0·8	120	0	•	•	•	•	•	•	2	0·07	- 0·35	*5·8*	—	*42*	—	*Spurn Head.*
b, South .. *a* Lincoln	78	30th	48	25, 26	72·9	52·0	61·8	+ 3·4	139	0	•	•	60·3	+1·3	58·0	+0·4	2	0·02	- 0·48	•	•	•	•	Lincoln.
a Fulbeck	80	30th	44	26th	73·7	50·9	61·6	+ 3·3	137	0	0	32	61·4	+0·8	57·3	-1·5	2	0·20	- 0·30	7·4	—	54	—	Rauceby.
											•	•	•	•	•	•	—	—	—	6·6	—	48	—	Skegness.
3. ENGLAND, E.											0	43	61·9	+0·7	59·6	-0·4	—	—	—	*8·5*	—	*62*	—	*Lowestoft.*
p Cromer	78	29th	48	24th	70·4	54·4	61·9	+ 3·7	139	0	•	•	•	•	•	•	2	0·06	—	7·8	—	57	—	Cromer.
p Little Massingham ..	81	29th	46	25th	75·3	51·1	62·5	+ 4·2	144	0	0	42	•	•	•	•	2	0·02	- 0·58	8·4	+ 3·1	61	+22	Lit. Massingham
a, North .. *a* Yarmouth	72	30th	48	25th	67·9	54·3	60·7	+ 1·9	131	0	•	•	61·6	-0·3	59·6	-2·0	2	0·21	- 0·30	8·4	—	61	—	Yarmouth.
a Norwich	81	30th	46	25th	74·3	51·1	62·0	+ 3·3	140	0	0	42	60·5	•	•	•	2	0·35	—	*8·6*	—	*63*	—	*Norwich.*
p Geldeston	82	30th	46	25th	73·9	50·3	61·4	+ 3·0	136	0	•	•	•	•	•	•	1	0·02	- 0·47	8·3	+ 2·5	61	+18	Geldeston.
p Cambridge	81	28th	42	25th	75·1	50·6	62·1	+ 2·5	141	0	0	40	61·9	+1·3	59·2	-0·7	3	0·11	- 0·38	6·8	+ 1·1	50	+ 8	Cambridge.
a Felixstowe	*75*	*30th*	*49*	*25th*	*68·7*	*55·6*	*61·8*	+ *2·2*	*139*	*0*	•	•	•	•	•	•	*2*	*0·13*	—	*9·0*	—	*66*	—	*Felixstowe.*
a Clacton-on-Sea ..	77	30th	48	25th	70·1	56·6	63·0	+ 3·3	147	0	0	42	61·5	+1·0	59·7	-0·4	2	0·07	—	7·5	—	55	—	Clacton.
b, South .. *a* Rothamsted ..	79	28th	41	25, 26	72·7	49·1	60·2	+ 2·4	127	0	•	•	•	•	•	•	3	0·25	- 0·31	6·0	+ 0·4	44	+ 3	Rothamsted.
a Shoeburyness	*78*	*28, 29*	*49*	*26th*	*70·4*	*54·0*	*61·7*	+ *1·0*	*138*	*0*	0	45	65·1	+1·0	•	•	*3*	*0·15*	- *0·25*	*7·3*	—	*54*	—	*Southend.*
p Tottenham	81	28th	47	26th	74·7	53·4	63·4	+ 3·8	150	0	0	42	•	•	61·7	-0·2	3	0·54	—	6·1	—	45	—	Tottenham.
4. MIDLAND COUNTIES.											0	42	58·6	+0·1	56·0	-1·0	—	—	—	*6·1*	—	*44*	—	*Huddersfield.*
a Harrogate	74	30th	48	26, 28	69·6	50·1	59·3	+ 3·4	121	0	0	41	57·1	+1·5	56·0	+0·5	1	0·22	- 0·36	7·1	—	51	—	Harrogate.
a Bawtry	77	26th	43	26th	71·9	49·3	59·9	+ 2·3	125	0	0	38	58·7	•	56·3	•	1	0·37	- 0·12	5·7	+ 1·3	42	+ 9	Worksop.
p Buxton	*70*	*28-30*	*42*	*26th*	*67·3*	*48·0*	*57·1*	+ *2·2*	*106*	*0*	0	43	58·7	+1·6	54·8	-0·5	*2*	*0·27*	- *0·70*	*7·8*	—	*57*	—	*Buxton.*
a, East .. *a* Nottingham	77	30th	44	26th	72·6	49·1	60·2	+ 2·4	127	0	0	40	59·4	+1·5	58·2	-0·5	4	0·59	+ 0·07	6·5	—	47	—	Nottingham.
p Birmingham, Edgbsn.	77	28th	47	25th	71·4	53·1	61·7	+ 3·7	138	0	0	36	56·8	+1·5	53·7	-0·5	2	0·23	- 0·34	5·6	—	41	—	Birmingham.
a Raunds	81	28th	42	26th	76·6	50·1	62·6	+ 4·5	144	0	0	37	60·1	•	57·0	•	3	0·09	—	•	•	•	•	Raunds.
p Oxford	81	28th	44	25th	74·3	51·1	62·0	+ 3·2	140	0	0	39	•	•	•	•	4	0·43	- 0·05	6·2	+ 0·7	45	+ 5	Oxford.
											0	42	58·3	+0·6	55·2	-0·7	—	—	—	5·6	—	41	—	Sheffield.
a Cheadle	72	26, 28, 30	45	25th	69·6	51·6	60·1	+ 4·2	127	0	0	41	•	•	•	•	2	0·21	- 0·51	•	•	•	•	Cheadle.
p Shrewsbury	76	28th	43	25th	71·7	50·6	60·5	+ 2·6	130	0	0	37	•	•	•	•	2	1·00	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	77	28th	41	25th	70·9	50·4	60·0	+ 1·9	126	0	0	34	•	•	•	•	2	0·26	- 0·27	•	•	•	•	Hereford.
a Cirencester	78	28th	39	25th	72·2	50·1	60·5	+ 3·5	130	0	0	40	60·5	•	58·0	•	1	0·30	- 0·34	4·8	- 0·6	35	- 4	Cirencester.
a Bath	82	28th	44	26th	74·0	52·4	62·6	+ 3·9	144	0	•	•	63·0	+1·0	60·7	-0·6	3	0·41	- 0·19	6·3	—	46	—	Bath.
5. ENGLAND, S.E.											0	40	64·7	+4·3	59·6	-1·2	—	—	—	•	•	•	•	Canterbury.
p Kew	79	28th	46	25, 26	73·1	52·9	62·4	+ 3·2	143	0	0	37	60·5	+0·1	57·9	-1·0	4	0·31	- 0·21	6·0	+ 0·4	44	+ 3	Kew.
a Marlborough	79	28th	36	26th	72·6	46·9	59·0	+ 2·3	119	0	1	30	•	•	57·6	•	2	0·17	- 0·42	4·9	- 0·4	36	- 3	Marlborough.
a Margate	73	28th	50	24th	70·6	57·1	63·5	+ 3·1	151	0	0	43	59·6	-1·1	57·0	-2·9	3	0·06	- 0·39	6·7	+ 1·0	49	+ 7	Margate.
a Wisley, Surrey ..	81	28th	41	26th	74·1	49·7	61·2	+ 1·2	134	0	0	32	61·0	+0·4	58·7	-1·5	3	0·31	—	6·5	—	48	—	Wisley.
											0	45	62·8	+0·7	60·3	-0·7	—	—	—	7·1	—	52	—	Worthing.
p Salisbury (Wilton) ..	80	28th	40	26th	74·9	49·3	61·3	+ 2·2	135	0	0	39	62·9	•	•	•	4	0·38	- 0·19	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	72	28th	49	25th	69·1	55·3	61·8	+ 1·7	139	0	•	•	•	•	•	•	4	0·99	+ 0·53	7·2	•	53	•	Littlestone.
p Hastings..	79	28th	49	24th	71·7	56·7	63·8	+ 3·8	153	0	0	42	63·2	•	60·2	•	4	0·80	+ 0·25	*7·5*	+ *1·1*	*55*	+ *8*	*Hastings.*
p Southampton	75	26, 28	47	26th	72·7	53·6	62·6	+ 1·9	144	0	0	41	•	•	•	•	2	0·27	- 0·30	6·8	+ 0·6	50	+ 4	Southampton.
a Ventnor	75	27th	53	25th	70·7	57·7	63·8	+ 2·6	153	0	•	•	•	•	•	•	5	0·22	- 0·31	6·0	- 0·4	44	- 3	Ventnor.
											0	40	62·9	+0·6	61·0	-0·7	—	—	—	*6·4*	—	*47*	—	*Portsmouth.*
											•	•	62·8	•	60·5	•	—	—	—	7·4	+ 1·2	54	+ 9	Eastbourne.
											•	•	61·7	•	61·0	•	—	—	—	*6·6*	—	*49*	—	*Bournemouth.*
LONDON.											0	45	•	•	61·3	•	—	—	—	7·2	+ *0·7*	*53*	+ *6*	*Brighton.*
a Westminster	*78*	*28t*	*48*	*25th*	*74·0*	*54·9*	*63·9*	+ *3·9*	*153*	*0*	0	41	•	•	•	•	*3*	*0·33*	- *0·17*	6·2	+ *1·2*	*46*	+ *9*	*Westminster.*
a Greenwich	*79*	*27, 28*	*45*	*25th*	*75·6*	*52·0*	*63·1*	+ *2·7*	*148*	*0*	0	32	•	•	•	•	*4*	*0·71*	+ *0·25*	*6·4*	+ *0·3*	*47*	+ *2*	*Greenwich.*
a Hampstead	*78*	*28th*	*48*	*25th*	*72·9*	*53·1*	*61·9*	—	*139*	*0*	0	33	•	•	•	•	*4*	*0·36*	—	*6·5*	—	*48*	—	*Hampstead.*
a Camden Square ..	*83*	*28th*	*45*	*25th*	*75·7*	*52·6*	*63·5*	—	*151*	*0*	0	44	•	•	•	•	*4*	*0·36*	—	*5·9*	—	*43*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	70	29th	45	28th	63·4	51·1	56·9	+ 1·0	104	0	•	•	•	•	•	•	2	0·59	- 0·51	•	•	•	•	
p Glasgow .. .. S	69	28th	46	28th	65·7	51·4	58·1	+ 3·2	113	0	0	37	•	•	•	•	2	0·36	- 0·50	5·1	+ 1·2	37	+ 9	Glasgow.
p Rothesay .. .. S	70	29th	46	27th	66·6	52·9	59·3	+ 3·6	122	0	•	•	•	•	56·0	+0·3	5	0·61	- 0·47	•	•	•	•	
a Kilmarnock ..	75	29th	43	28th	67·1	49·7	57·9	+ 2·6	111	0	•	•	•	•	•	•	4	0·28	—	*5·7*	—	*41*	—	*Kilmarnock.*
a Colmonell ..	71	29th	42	28th	67·4	50·1	58·2	+ 1·8	113	0	0	40	•	•	•	•	3	0·48	- 0·48	•	•	•	•	
p Dumfries ..	78	29th	48	25th	70·6	52·0	60·7	+ 3·6	131	0	0	40	60·2	•	59·0	•	1	0·15	- 0·68	*7·4*	—	*53*	—	*Dumfries.*
p Cally, Gatehouse S	76	29th	45	25, 27	69·3	48·7	57·3	+ 2·6	107	0	•	•	•	•	•	•	2	0·18	- 0·85	•	•	•	•	
b I. OF MAN.																								
p Douglas	74	29th	50	25th	67·0	52·7	59·4	+ 3·7	122	0	0	46	•	•	•	•	0	0·00	- 0·93	8·4	+ 3·1	60	+22	Douglas.
											0	39	57·2	+1·1	55 1	-0·6	—	—	—	*6·3*	—	*45*	—	*Burnley.*
											0	44	•	•	•	•	—	—	—	7·6	—	56	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	79	29th	49	27th	70·0	51·1	60·0	+ 4·1	126	0	0	42	59·1	•	55·3	•	2	0·16	- 0·81	7·6	—	55	—	Aspatria
p Newton Rigg ..	76	28th	41	26th	70·4	48·0	58·5	+ 3·7	116	0	0	37	59·4	+2·1	56·2	+0·1	2	0·28	- 0·47	8·6	+ 4·0	62	+29	Newton Rigg.
p Stonyhurst	73	29th	46	26th	68·0	52·4	59·7	+ 3·7	124	0	0	38	•	•	•	•	2	0·23	- 0·85	6·5	+ 1·9	47	+13	Stonyhurst.
p Blackpool	75	29th	46	26th	69·9	52·7	60·8	+ 3·3	132	0	0	43	59·2	•	56·1	•	1	0·10	- 0·70	7·7	+ 2·8	55	+20	Blackpool.
p Manchester (Whit. Pk.)	79	29th	47	25th	71·9	52·1	61·4	+ 4·1	136	0	•	•	•	•	•	•	2	0·14	- 0·49	*5·6*	+ *1·7*	*40*	+*13*	*Whit. Park.*
a Liverpool (Bidston) ..	74	29th	53	24, 26, 27	68·0	54·3	60·7	+ 3·4	131	0	•	•	•	•	•	•	2	0·05	- 0·61	*7·2*	—	*53*	—	*Liverpool.*
a Hawarden Bridge ..	75	28th	47	25th	70·3	53·6	61·5	+ 3·0	137	0	0	41	61·8	+1·5	60·0	-0·2	2	0·03	- 0·57	*7·5*	+ *2·4*	*54*	+*17*	*Southport.*
											0	43	60·2	+1·8	60·7	+1·5	—	—	—	*5·4*	—	*39*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	71	29th	50	26th	68·6	54·3	61·0	+ 2·4	133	0	•	•	•	•	•	•	0	0·00	- 0·63	7·6	+ 2·6	56	+19	Llandudno.
a Holyhead	74	28th	51	26th	66·6	55·1	60·5	+ 2·7	130	0	•	•	•	•	•	•	1	0·07	- 0·62	*7·6*	—	*56*	—	*Holyhead.*
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	6·7	—	49	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.
‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				6·4	—	47	—	
a Llangammarch Wells	74	28th	42	25, 26	69·6	49·7	59·1	+ 2·9	120	0	0	37	59·1	+1·4	56·0	0·0	1	0·06	—	5·9	—	43	—	Aberystwyth.
a Pembroke	73	28th	54	26th	67·9	56·9	62·1	+ 4·1	141	0	•	•	•	•	•	•	1	3·02	- 0·66	5·3	- 0·5	39	- 3	Llangammarch
p Cardiff	78	28th	48	25, 26	70·7	54·1	61·9	+ 3·1	139	0	0	40	61·1	+1·1	59·2	-0·3	3	0·17	- 0·76	*5·3*	—	*39*	—	Pembroke.[Wells
																								Cardiff.
b, ENGLAND, S.W.																								
a Clifton	80	28th	50	25, 26	72·4	55·1	63·2	+ 3·6	148	0	0	47	•	•	•	•	3	0·26	- 0·48	*6·5*	—	*47*	—	*Clifton.*
a Shaftesbury	75	28th	47	25th	71·1	53·0	61·5	+ 3·6	137	0	•	•	60·9	•	59·6	•	3	0·44	- 0·23	•	•	•	•	Shaftesbury.
a Arlington	74	28th	45	25th	69·6	52·1	60·3	+ 3·3	128	0	•	•	•	•	•	•	1	0·07	- 1·05	•	•	•	•	Arlington.
a Newquay	*74*	*26th*	*46*	*25th*	*67·3*	*56·1*	*61·4*	+ *2·1*	*136*	*0*	•	•	62·1	•	•	•	*3*	*0·15*	- *0·41*	3·3	- 2·9	24	- 22	Newquay.
a Cullompton	78	26, 30	43	25th	73·6	51·6	61·9	+ 3·5	139	0	0	39	63·7	•	•	•	4	0·24	- 0·41	4·7	- 0·9	35	- 7	Cullompton.
a Portland	74	27th	56	25th	68·6	58·1	63·0	+ 2·8	147	0	•	•	•	•	•	•	2	0·32	—	*6·2*	—	*46*	—	*Weymouth.*
p Plymouth	73	26, 30	47	25th	69·7	56·3	62·6	+ 2·8	144	0	0	42	63·5	+1·6	•	•	3	0·27	- 0·37	5·0	- 1·0	37	- 7	Plymouth.
a Falmouth	72	26th	50	25th	67·9	55·9	61·5	+ 2·5	137	0	•	•	•	•	•	•	1	0·22	- 0·53	4·3	- 2·1	32	-16	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	65	26, 27	50	24th	60·6	52·4	56·3	+ 0·3	100	0	•	•	•	•	•	•	2	0·23	- 0·54	•	•	•	•	
a Blacksod Point ..	66	25, 26	51	27th	63·1	52·9	57·7	+ 1·0	110	0	•	•	•	•	•	•	1	0·03	- 1·02	•	•	•	•	
p Markree Castle ..	70	25, 26	45	26th	64·7	48·0	55·9	+ 0·5	97	0	0	38	60·2	•	57·1	•	1	0·01	- 0·95	4·0	+ 0·1	29	0	Markree Castle.
a Birr Castle	71	28th	44	25, 28	66·0	48·0	56·5	+ 0·1	102	0	•	•	•	•	•	•	1	0·01	- 0·77	*4·6*	+ *0·1*	*34*	+ *1*	*Birr Castle.*
b, East .. *p* Armagh	72	26, 28	44	28th	68·3	49·0	58·1	+ 2·3	113	0	0	36	59·9	+1·2	58·0	+0·2	0	0·00	- 0·78	6·2	+ 2·1	45	+15	Armagh.
a Donaghadee	71	25th	49	28, 29	63·6	51·1	57·0	+ 0·5	105	0	•	•	•	•	•	•	2	0·04	- 0·71	•	•	•	•	
											0	42	60·8	+1·8	58·9	+0·8	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	36	•	•	•	•	—	—	—	6·3	+ 1·2	46	+ 9	Phœnix Park.
a, East .. *p* Dublin, City	70	25th	49	28th	66·3	52·6	59·0	+ 0·7	119	0	0	46	•	•	•	•	1	0·01	- 0·69	•	•	•	•	Dublin City.
a Kilkenny	72	28th	40	25th	66·6	49·6	57·6	+ 0·8	109	0	•	•	•	•	•	•	2	0·10	- 0·64	•	•	•	•	
a Waterford	75	28th	44	25th	67·4	51·4	58·9	+ 1·2	118	0	•	•	•	•	•	•	1	0·01	- 0·82	•	•	•	•	
a Carrick-on-Suir ..	*72*	*28th*	*47*	*25th*	*66·0*	*50·9*	*58·0*	—	*112*	*0*	0	35	•	•	•	•	*2*	*0·07*	—	*5·9*	—	*43*	—	*Carrick-on-Suir.*
a Birr Castle	71	28th	44	25, 28	66·0	48·0	56·5	+ 0·1	102	0	•	•	•	•	•	•	1	0·01	- 0·77	4·6	+ 0·1	34	+ 1	Birr Castle.
a Foynes	68	26th	50	24th	63·3	52·6	57·6	+ 0·2	109	0	•	•	•	•	•	•	3	0·70	- 0·13	•	•	•	•	
b, West .. *a* Cahir	73	28th	40	25th	67·1	49·6	57·8	+ 0·7	111	0	•	•	•	•	•	•	2	0·14	—	•	•	•	•	
a Killarney	74	25th	49	28th	68·9	53·9	61·0	+ 3·8	133	0	•	•	•	•	•	•	3	0·45	- 0·57	•	•	•	•	
a Valencia	69	25-27	49	28th	66·1	52·6	59·0	+ 1·3	119	0	•	•	•	•	•	•	2	0·03	- 1·08	8·2	+ 3·5	60	+26	Valencia.
a Roche's Point	72	28th	47	25th	66·1	53·4	59·4	+ 1·3	122	0	•	•	•	•	•	•	7	1·14	+ 0·28	6·1	—	45	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	69	28th	54	24th	66·6	57·0	61·5	+ 1·4	137	0	•	•	•	•	•	•	3	0·05	- 0·55	4·1	- 2·7	30	-20	Scilly.
a Jersey, St. Aubins ..	76	28th	48	25th	70·4	57·1	63·4	+ 1·4	150	0	•	•	•	•	•	•	4	0·22	- 0·38	5·8	- 1·4	43	-10	St. Heliers.
a Guernsey (Villa Carey)	74	29th	54	24th	68·9	57·1	62·7	+ 1·5	145	0	0	43	63·8	+0·6	62·0	-0·1	2	0·78	+ 0·13	6·6	- 0·6	49	- 4	Guernsey.*

Additional Sunshine Means:—*Bognor, 7·1 hrs. 52 %; Ramsgate, 7·2 hrs. 53 %; Rhyl, 7·7 hrs. 56 %; Salcombe, 5·7 hrs. 42 %; Tenby, 5·4 hrs. (-0·4) 39 % (-3); Torquay, 4·8 hrs. (-1·4) 35 % (-11)*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, August 30th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	55	54	54·6	+1·9	SCOTLAND, W. ..	Lamlash	60	54	56·6	+1·0
	Kirkwall	57	55	56·2	+1·7		Ballantrae	59	54	56·8	+0·3
	Wick	56	54	54·2	+0·9	ENGLAND, N.W. ..	Port Erin	60	57	57·8	+1·0
SCOTLAND, E. ..	Cromarty	59	57	57·6	+2·0	ENGLAND, S.W. ..	Newquay	62	61	61·4	+0·3
	Pennan Bay	61	57	59·5	+4·6		Scilly	60	59	59·5	—
	Aberdeen, Cove Bay	57	56	56·8	+2·6		Plymouth‡	63	61	61·6	+1·7
ENGLAND, N.E. ..	Burnmouth, Berwick	55	54	54·9	+1·0		Salcombe	63	60	62·0	+2·3
	Scarborough	58	56	57·3	+0·9	IRELAND, N.W. ..	Sheephaven	61	58	59·5	+0·5
ENGLAND, E. ..	Shipwash Lightship	64	59	62·4	0·0		Teelin	62	58	59·6	+0·5
ENGLAND, S.E. ..	Eastbourne‡	65	62	64·0	+0·8	IRELAND, S.W. ..	Cleggan	59	56	58·0	+0·9
							Seafield	63	60	61·9	+2·3

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905 An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-FIFTH WEEK—August 24th to August 30th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	73	47	61·9	51·3	56·3	+ 2·6	100	+ 18	0	0	4	− 1	0·34	−0·77	2·9	−0·7	20	− 5
Eastern.																		
1. SCOTLAND, EAST ...	77	40	67·2	49·0	57·6	+ 2·8	109	+ 19	0	0	4	− 1	0·53	−0·18	4·9	+0·3	35	+ 2
2. ENGLAND, N.E.	80	44	69·8	51·6	60·2	+ 3·5	127	+ 24	0	0	2	− 2	0·30	−0·34	7·0	+2·2	50	+16
3. ENGLAND, EAST ...	82	41	72·7	52·3	61·9	+ 3·4	139	+ 24	0	0	2	− 2	0·18	−0·36	7·4	+1·9	54	+14
4. MIDLAND COUNTIES ...	82	39	72·3	50·7	60·9	+ 3·5	132	+ 25	0	0	2	− 2	0·37	−0·27	6·0	+1·2	44	+ 9
5. ENGLAND, S.E.	81	36	72·2	53·2	62·2	+ 2·6	141	+ 18	0	0	3	− 1	0·39	−0·27	6·5	+0·8	48	+ 6
Western.																		
6. SCOTLAND, WEST ...	78	42	67·1	50·8	58·5	+ 3·0	116	+ 22	0	0	2	− 3	0·33	−0·81	6·8	+2·2	48	+16
7. ENGLAND, N.W.	79	41	69·3	52·6	60·5	+ 3·5	130	+ 25	0	0	2	− 3	0·12	−0·77	7·5	+3·0	55	+22
8. ENGLAND, S.W.	80	42	70·1	54·3	61·7	+ 3·6	138	+ 25	0	0	2	− 2	0·21	−0·68	5·0	−0·4	37	− 3
9. IRELAND, NORTH ...	72	44	64·4	50·2	56·9	+ 1·3	104	+ 8	0	0	1	− 4	0·05	−0·90	5·1	+1·2	37	+ 9
10. IRELAND, SOUTH ...	75	40	66·4	51·5	58·5	+ 1·4	116	+ 10	0	0	2	− 2	0·29	−0·60	6·3	+1·8	46	+13
11. ENGLISH CHANNEL ...	76	48	68·6	57·1	62·5	+ 1·8	144	+ 13	0	0	3	− 2	0·35	−0·31	5·5	−1·0	40	− 8

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 13 Weeks, June 1st to August 30th, 1913.

0. SCOTLAND, NORTH ...	78	33	*	*	*	*	1,126	+ 20	0	− 2	43	−13	7·02	−3·55	4·2	−0·1	25	− 1
Eastern.																		
1. SCOTLAND, EAST ...	80	31	*	*	*	*	1,226	− 13	0	− 1	37	−12	4·15	−4·16	5·1	−0·2	31	− 1
2. ENGLAND, N.E.	82	37	*	*	*	*	1,345	− 53	0	0	32	−11	3·03	−3·95	5·1	−0·8	32	− 5
3. ENGLAND, EAST ...	84	38	*	*	*	*	1,456	−113	0	0	32	− 9	3·65	−2·94	5·4	−1·0	35	− 7
4. MIDLAND COUNTIES ...	83	36	*	*	*	*	1,468	− 49	0	0	28	−13	3·14	−3·91	4·7	−1·1	30	− 8
5. ENGLAND, S.E.	84	36	*	*	*	*	1,538	−114	0	0	27	−12	2·95	−3·55	5·5	−1·2	36	− 8
Western.																		
6. SCOTLAND, WEST ...	80	35	*	*	*	*	1,290	− 21	0	0	38	−13	5·85	−5·18	5·7	+0·1	36	+ 1
7. ENGLAND, N.W.	79	36	*	*	*	*	1,389	− 54	0	0	37	−10	6·02	−2·90	5·9	+0·1	38	+ 1
8. ENGLAND, S.W.	83	34	*	*	*	*	1,496	− 31	0	0	30	−15	3·32	−5·25	6·2	−0·2	40	− 1
9. IRELAND, NORTH ...	77	35	*	*	*	*	1,238	− 89	0	0	42	−15	6·02	−2·88	4·8	+0·1	30	0
10. IRELAND, SOUTH ...	79	38	*	*	*	*	1,415	− 52	0	0	40	− 9	5·12	−4·54	5·5	+0·2	35	+ 1
11. ENGLISH CHANNEL ...	79	44	*	*	*	*	1,577	− 90	0	0	33	−13	3·44	−3·32	6·7	−1·1	44	− 7

THE YEAR.—Aggregates, &c., for the Period of 35 Weeks, December 29th, 1912, to August 30th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,531	− 23	424	−133	149	−11	28·71	−2·70	3·2	−0·4	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,671	− 99	601	− 19	129	− 4	17·38	−2·19	3·8	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	1,930	− 20	406	− 69	118	− 2	14·32	−1·14	3·8	−0·8	29	− 6
3. ENGLAND, EAST ...	84	20	*	*	*	*	2,236	− 24	303	−218	113	− 3	13·01	−1·90	4·3	−0·7	32	− 6
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,178	− 58	392	−141	115	0	16·93	+0·17	3·6	−0·9	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	2,345	− 74	221	−160	109	− 1	15·23	−0·88	4·4	−0·7	34	− 5
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	1,857	− 46	323	−102	138	− 2	26·80	−2·05	3·9	−0·5	29	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,011	− 56	298	− 88	133	+ 5	22·31	+1·10	4·2	−0·3	31	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	2,247	− 45	221	− 80	130	+ 5	23·80	+1·15	4·4	−0·6	34	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	1,870	−117	297	− 48	152	0	24·19	+0·33	3·8	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,188	− 98	243	− 16	152	+17	27·53	+2·35	4·1	−0·4	31	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	2,535	− 51	38	− 71	128	− 5	18·27	−0·41	4·9	−1·1	38	− 9

M.O., September 3, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 36. THIRTY-SIXTH WEEK, SUNDAY, AUGUST 31ST, TO SATURDAY, SEPTEMBER 6TH, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. In Scotland, the north-west of England, North Wales and a large portion of Ireland the weather was dry throughout, but in the south-west, south and south-east of England heavy falls of rain were experienced, in some places on August 31st, in others on September 4th or 5th. Thunderstorms occurred in the east of England on September 1st, and at some stations in the extreme south-west on the 5th.

Temperature was rather above the average generally, but a little below it in Scotland N. and E. The highest of the maxima were recorded at most stations during the latter half of the period, and ranged from 74° in the English Channel to 68° in Scotland E. and England N.W. The lowest of the minima, which occurred on irregular dates, varied from 34° in Scotland E. and 36° in England N.W. to 50° in England E. and S.E., and to 54° in the English Channel. The lowest grass readings were 30° at Newton Rigg, 31° at Balmoral, and 32° at Armagh. Over the country generally the temperature of the earth was above the normal at a depth of 1 foot, and in most parts of the Kingdom it was above it at a depth of 4 feet also.

Mean Temperature of the Sea. On all parts of the coast the water was warmer than during the corresponding week of last year, and except at Newquay and on the north-east coast of England its temperature was a little above the average. At Eastbourne it was as high as 64°, but decreased to 54° at Wick and Burnmouth and to 53° at Lerwick.

Rainfall. In Scotland and in England N.W. there was practically no rain, and in Ireland less than 0·1 in. In the south and south-west of England, however, there was a great excess. On Sunday more than an inch fell over a large portion of the southern counties, the largest measurements being 1·4 in. at Hastings, Brighton, and Westbourne, 1·76 in. at Portland Bill, and 2·47 in. at Worthing. Further heavy falls were recorded on the 4th; 1·57 in. at Bath, 1·69 in. at Worthing, 1·70 in. at Cardiff, and more than 1·0 in. at many other places.

Bright Sunshine was much less than the average except in Scotland N., where the daily mean was 5·8 hours, and the percentage of the possible duration 42, or 16 above the normal. In all parts of England except the north-west, the daily mean was less than 2 hours, and in England S.E. it was no more than 0·6 hour. In the latter district the percentage of the possible was only 5, in England E. 7, and in the Midland Counties 10.

Barometer and Wind. The distribution of pressure was mainly anticyclonic, the highest barometric readings being found to the northward of these Islands, but shallow depressions existed over the southern counties, the Netherlands and the North of France. The wind was consequently from some point between North-West and North-East, and, as the barometric gradient was generally slight, there was little force. Late in the week, however, a fresh to strong breeze sprang up on the Channel and south-eastern coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 139.	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Moderate	Unusual	Unusual	Moderate	Unusual	Unusual
Rainfall ...	Very light	Light	Moderate	Heavy	Heavy	Very heavy	Nought	Nought	Very heavy	Very light	Light	Moderate
Sunshine ...	Very abundant	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Very scanty	Moderate	Scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 1 week from August 31st, 1913. Warmth ...	0*0	0*0	0*0	1*0	1*0	1*0	0*0	1*0	1*0	0*0	1*0	1*0
Rainfall ...	0*1	0*1	0*0	1*0	1*0	1*0	0*1	0*1	1*0	0*1	0*1	0*0
Sunshine ...	1*0	0*1	0*1	0*1	0*1	0*1	0*1	0*1	0*1	0*0	0*1	0*1

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks. Warmth ..	1*7	3*5	3*5	0*5	3*4	0*7	3*6	3*7	2*5	4*5	3*4	1*6
Rainfall ...	5*5	6*4	4*5	6*6	3*8	4*9	2*6	2*5	4*8	2*6	2*8	4*7
Sunshine ...	3*8	4*8	2*4	2*6	1*5	3*5	1*5	5*5	4*6	3*5	1*5	4*6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks. Warmth ...	5*3	5*3	6*2	5*1	6*2	7*1	8*3	6*1	6*2	9*1	8*3	8*1
Rainfall ...	6*5	5*3	4*3	5*2	5*3	5*3	5*3	5*3	7*3	6*2	6*2	5*4
Sunshine ...	1*6	0*7	1*8	2*7	2*9	3*6	0*9	2*4	1*8	0*8	0*8	1*9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks. Warmth ...	2*5	2*5	5*2	5*2	4*2	4*2	2*4	4*3	3*2	1*3	1*3	3*4
Rainfall ...	6*2	5*3	5*4	5*2	7*3	6*1	8*2	7*3	6*1	7*2	6*1	7*3
Sunshine ...	3*3	2*3	1*4	2*6	2*5	2*4	1*8	1*4	0*6	2*5	1*6	0*10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks. Warmth ...	4*3	2*4	3*5	3*5	3*5	2*6	3*4	3*5	5*5	3*5	4*4	1*6
Rainfall ...	2*8	1*9	0*10	1*5	0*9	1*9	2*7	3*8	1*11	1*8	2*9	1*5
Sunshine ...	4*5	4*4	4*7	2*7	2*8	1*7	5*5	6*5	3*4	6*6	5*4	3*9

(31632—24.) Wt. 196—786. 450. 9/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*57*	*6th*	*46*	*31, 1*	*54·5*	*47·5*	*50·8*	—	*62*	*0*			52·9				*1*	*0·01*	—	*2·3*		*17*		*Baltasound.*
a Islands .. *a* Lerwick ..	57	5th	42	5th	54·7	47·6	51·0	- 0·1	63	0							0	0·00	—	4·8	+ 1·1	35	+ 8	Deerness.
a Stornoway ..	64	4, 5	43	4th	60·3	46·1	52·9	+ 0·2	76	0							0	0·00	- 0·99	7·8	+ 3·8	57	+28	Stornoway.
a Castlebay, Barra Isd.‡ ..	*62*	*5th*	*50*	*1, 3, 6*	*59·3*	*51·3*	*55·1*	+ *1·3*	*92*	*0*							*0*	*0·00*	—	*8·2*	—	*60*	—	*Castlebay.*
a Wick	57	4-6	47	1, 2	55·0	49·4	52·1	- 0·7	71	0							1	0·04	- 0·56					
b, Mainland. *p* Strathpeffer ..	66	4th	40	5th	61·6	45·9	53·4	+ 0·4	80	0							0	0·00	- 0·59	4·7	+ 0·8	35	+ 6	Strathpeffer.
p Glencarron ..	67	4th	37	6th	59·2	43·4	50·9	- 0·9	62	0							0	0·00	- 1·85					
p Fort Augustus ..	69	4th	38	3rd	60·7	47·3	53·7	0·0	82	0							0	0·00	- 0·88	5·7	+ 2·8	42	+21	Fort Augustus.
p Fort William ..	69	4th	40	3rd	63·7	44·7	53·7	- 0·4	82	0							0	0·00	- 1·56					
1. SCOTLAND, E.																								
p Gordon Castle .. S	66	4th	35	6th	59·1	45·7	52·1	- 2·3	71	0	0	34	55·9	+0·9	55·1	+0·4	—	—	—	2·1	—	15	—	Crathes S.
a Nairn	68	4th	38	5th	59·1	45·6	52·0	- 2·0	70	0							0	0·00	- 0·61	*3·5*	—	*26*	—	*Gordon Castle.*
a Aberdeen ..	63	4th	47	1st	59·1	50·0	54·3	+ 0·5	86	0							0	0·00	- 0·52	4·5	—	33	—	Nairn.
a Balmoral ..	63	4th	34	5th	57·0	43·3	49·8	- 1·3	55	0	0	31			51·1	+0·7	0	0·00	- 0·59	3·0	- 1·4	22	-11	Aberdeen.
p Crieff	64	5th	40	2, 3	61·3	45·9	53·2	- 1·7	78	0							0	0·00	- 0·70					Balmoral.
a Leith	63	4th	50	4th	59·1	52·1	55·4	- 0·5	94	0							0	0·00	- 0·80	2·5	—	19	—	Balruddery.
p West Linton .. S	60	4, 5	42	6th	56·1	46·3	51·0	- 1·9	63	0	0	41					0	0·00	- 0·50					
p Marchmont .. S	62	5th	47	2-4	57·1	48·9	52·8	- 0·7	76	0	0	43	55·6	+1·6			1	0·02	—	*1·6*	—	*12*	—	*West Linton.*
																	3	0·09	- 0·59	1·6	- 2·7	12	-20	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	63	31st	50	2, 3	59·6	51·1	55·2	+ 0·8	92	0	0	43	55·1	+1·9	55·1	+1·1	4	0·25	- 0·35	1·9	—	14	—	Cockle Park.
a Shields	65	5th	52	2nd	59·6	53·4	56·4	+ 1·1	101	0							4	0·08	- 0·42					
p Durham	63	6th	49	1st	59·4	50·6	54·8	- 0·7	90	0	0	47					6	0·33	- 0·16	1·5	- 2·7	11	-20	Durham.
a, North .. *p* Rounton	63	3rd	46	6th	59·7	50·1	54·7	- 0·3	89	0	0	37	57·6				1	0·08	- 0·39					Rounton.
a West Witton ..	*64*	*3rd*	*49*	*2, 3*	*58·9*	*51·0*	*54·8*	—	*90*	*0*	0	45	57·6		54·5		*1*	*0·01*	—					*West Witton.*
p Scarborough ..	64	3rd	52	2nd	61·0	53·9	57·3	+ 1·1	107	0					59·0†		3	0·27	- 0·23	1·4	—	11	—	Scarborough.
p York	69	4th	48	6th	64·9	52·6	58·5	+ 1·9	116	0			59·2	+2·0	57 1	+0·3	3	0·06	- 0·41	2·5	- 1·8	19	-14	York.
											0	40	57·6	+1·1	56·0	-0·3	—	—	—	*1·4*	—	*11*	—	*Hull.*
a Spurn Head ..	67	31st	52	3rd	62·9	53·6	58·0	+ 0·4	112	0							5	0·97	+ 0·59	*0·6*	—	*5*	—	*Spurn Head.*
b, South .. *a* Lincoln	66	3, 4	49	3rd	62·6	53·6	57·9	+ 0·5	111	0			59·8	+2·1	58·1	+1·0	3	0·33	- 0·14					Lincoln.
a Fulbeck	66	4th	45	3, 4	62·3	50·9	56·3	- 1·0	100	0	0	47	60·2	+0·6	57·7	-0·5	3	0·65	+ 0·19	0·9	—	7	—	Rauceby.
																	—	—	—	2·3	—	17	—	Skegness.
											0	55	62·2	+2·2	60·0	+0·6	—	—	—	*1·5*	—	*11*	—	*Lowestoft.*
3. ENGLAND, E.																								
p Cromer	66	6th	55	3rd	62·4	56·7	59·4	+ 2·0	122	0							4	0·18	—	1·4	—	11	—	Cromer.
p Little Massingham ..	66	4, 6	50	3rd	62·4	54·0	58·0	+ 0·7	112	0	0	46					5	1·23	+ 0·65	1·9	- 3·2	14	-24	Lit. Massingham
a, North .. *a* Yarmouth ..	66	4th	57	3rd	62·4	59·0	60·6	+ 2·7	130	0			62·1	+1·7	60·0	-0·8	4	0·26	- 0·24	1·4	—	11	—	Yarmouth.
a Norwich	66	4, 5	53	3rd	63·0	57·1	59·9	+ 2·0	125	0	0	51	61·5				6	0·67	—	*1·0*	—	*8*	—	*Norwich.*
p Geldeston	64	31st	55	2, 3	60·7	56·7	58·6	+ 1·0	116	0							4	0·37	- 0·11	1·0	- 4·6	8	-34	Geldeston.
p Cambridge	69	4th	51	3rd	64·4	55·6	59·8	+ 1·2	125	0	0	48	61·0	+1·7	59·5	+0·2	5	1·53	+ 1·07	0·6	- 4·8	5	-36	Cambridge.
a Felixstowe ..	*66*	*31st*	*55*	*1, 3*	*63·7*	*58·0*	*60·7*	+ *2·0*	*131*	*0*							*4*	*0·72*	—	*0·9*	—	*7*	—	*Felixstowe.*
a Clacton-on-Sea ..	67	31st	55	1-3	63·6	57·1	60·2	+ 1·5	127	0	0	54	61·6	+2·1	60·1	+0·5	3	0·13	—	0·4	—	3	—	Clacton.
b, South .. *a* Rothamsted ..	67	4th	51	3rd	62·7	54·9	58·6	+ 1·9	116	0							6	0·89	+ 0·36*	0·5	- 4·8	4	-36	Rothamsted.
a Shoeburyness ..	*67*	*4th*	*54*	*3rd*	*64·4*	*56·9*	*60·5*	+ *0·8*	*130*	*0*	0	53	63·9	+1·7			*2*	*0·29*	- *0·11*	*0·8*	—	*6*	—	*Southend.*
p Tottenham ..	70	31st	52	4th	64·9	56·3	60·4	+ 1·8	129	0	0	51			61·6	+0·4	4	0·80	—	0·5	—	4	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	67	3rd	48	3, 6	59·6	50·4	54·8	- 0·2	90	0	0	42	58·5	+1·4	56·0	-0·3	—	—	—	*2·0*	—	*15*	—	*Huddersfield.*
a Bawtry	68	3rd	48	6th	63·1	53·1	57·9	+ 1·3	111	0	0	41	56·7	+1·8	56·1	+1·3	3	0·22	- 0·35	2·4	—	18	—	Harrogate.
p Buxton	*63*	*3rd*	*39*	*3rd*	*59·6*	*49·1*	*54·1*	- *0·8*	*85*	*0*	0	38	58·5		56·7		4	0·52	+ 0·09	1·8	- 2·4	13	-19	Worksop.
a, East .. *a* Nottingham ..	66	4th	49	3rd	62·4	53·1	57·5	+ 0·8	109	0	0	37	58·5	+2·7	55·1	+0·2	*4*	*0·27*	- *0·66*	*3·2*	—	*24*	—	*Buxton.*
p Birmingham, Edgbsn.	66	4, 6	48	3rd	62·4	52·4	57·2	+ 0·1	106	0	0	43	58·4	+1·7	58·4	-0·3	5	0·42	- 0·06	1·6	—	12	—	Nottingham.
a Raunds	69	4th	50	3rd	64·0	54·4	59·0	+ 1·8	119	0	0	42	55·9	+1·6	54·0	+0·3	5	0·45	- 0·06	1·4	—	11	—	Birmingham.
p Oxford	69	31st	51	3rd	64·3	55·9	59·9	+ 1·9	125	0	0	51	59·7		57·1		5	1·35	—					Raunds.
											0	51					4	0·79	+ 0·34	0·5	- 4·8	4	-36	Oxford.
											0	44	57·1	+0·4	55·5	-0·6	—	—	—	1·5	—	11	—	Sheffield.
a Cheadle	65	3rd	44	3rd	61·6	51·7	56·4	+ 1·5	101	0	0	41					4	0·56	- 0·10					Cheadle.
p Shrewsbury ..	67	31, 6	42	3rd	63·7	51·9	57·5	+ 0·4	109	0	0	36					3	0·24	—					Shrewsbury.
b, West .. *a* Hereford ..	68	31st	49	3rd	62·1	53·6	57·7	+ 0·7	110	0	0	47					5	1·30	+ 0·80					Hereford.
a Cirencester ..	69	4th	50	3rd	64·4	53·4	58·6	+ 2·9	116	0	0	50	59·3		57·8		4	1·50	+ 0·90	0·7	- 4·4	5	-34	Cirencester.
a Bath	69	6th	53	3, 4	64·6	55·6	59·9	+ 2·1	125	0			62·3	+1·2	60·9	0·0	5	2·51	+ 1·92	0·4	—	3	—	Bath.
5. ENGLAND, S.E.																								
											0	54	64·0	+4·6	60·0	0·0	—	—	—					Canterbury.
p Kew	66	31, 3, 4	55	1, 3	63·7	57·3	60·4	+ 2·0	129	0	0	54	60·4	+1·2	58·0	-0·4	4	1·24	+ 0·74	0·3	- 5·0	2	-38	Kew.
a Marlborough ..	65	6th	50	3rd	61·3	53·9	57·4	+ 1·6	108	0	0	49			57·3		5	2·39	+ 1·82	0·1	- 4·9	1	-37	Marlborough.
a Margate	67	3rd	56	2, 3	64·4	58·4	61·3	+ 1·6	135	0	0	55	60·4	+1·0	57·0	-2·1	2	0·73	+ 0·27	0·9	- 4·5	7	-34	Margate.
a Wisley, Surrey ..	65	3, 4, 6	53	3rd	62·0	56·1	58·9	0·0	118	0	0	51	60·4	+1·1	58·8	-0·8	5	2·05	—	0·3	—	2	—	Wisley.
											0	54	62·6	+1·8	60·4	-0·1	—	—	—	0·9	—	7	—	Worthing.
p Salisbury (Wilton) ..	66	6th	52	3rd	63·0	55·0	58·8	+ 0·8	118	0	0	51	61·4				7	3·04	+ 2·51					Salisbury.
a Tunbridge Wells ..																	—	—	—					Tunbridge Wells.
a Dungeness	67	3rd	57	1, 2	64·9	59·1	61·9	+ 2·5	139	0							4	1·88	+ 1·41	1·0	—	8		Littlestone.
p Hastings	70	3rd	55	2nd	65·0	57·7	61·2	+ 1·9	134	0	0	54	62·4		60·6		4	2·44	+ 1·85	*1·2*	- *4·9*	*9*	-37	*Hastings.*
p Southampton ..	68	31st	54	3rd	64·1	57·3	60·5	+ 0·8	130	0	0	51					5	2·36	+ 1·81	0·2	- 5·7	2	-40	Southampton.
a Ventnor	67	3rd	55	2nd	63·3	57·7	60·4	- 0·1	129	0							5	2·31	+ 1·74	0·8	- 5·4	6	-41	Ventnor.
											0	55	61·6	+0·7	60·9	-0·2	—	—	—	*0·5*	—	*4*	—	*Portsmouth.*
													62·7		60·6		—	—	—	1·1	- 4·8	8	-37	Eastbourne.
													61·1		60·7		—	—	—	*0·1*	—	*1*	—	*Bournemouth.*
LONDON.															61·8		—	—	—	*1·4*	- *4·7*	*11*	-36	*Brighton.*
a Westminster ..	*67*	*3, 4*	*55*	*3rd*	*65·0*	*57·9*	*61·3*	+ *2·4*	*135*	*0*	0	53					*4*	*0·98*	+ *0·51*	*0·4*	- *4·2*	*3*	-32	*Westminster.*
a Greenwich ..	*68*	*3, 4*	*54*	*1, 3*	*64·4*	*57·0*	*60·5*	+ *1·1*	*130*	*0*	0	54					*4*	*1·24*	+ *0·79*	*0·6*	- *5·2*	*5*	-39	*Greenwich.*
a Hampstead ..	*66*	*4th*	*52*	*3rd*	*61·9*	*55·3*	*58·4*	—	*115*	*0*	0	52					*4*	*1·13*	—	*0·8*	—	*6*	—	*Hampstead.*
a Camden Square ..	*72*	*4th*	*54*	*3rd*	*66·0*	*57·0*	*61·3*	—	*135*	*0*	0	48					*4*	*1·24*	—	*0·7*	—	*5*	—	*Camden Square.*
											0	54					*4*	*1·24*	—	*0·7*	—	*5*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	67	6th	43	6th	63·3	48·3	55·4	+ 0·2	94	0							0	0·00	- 1·11					
p Glasgow	61	31, 5	47	2nd	59·4	50·4	54·7	+ 0·5	89	0	0	42					0	0·00	- 0·82	2·6	- 1·1	19	- 8	Glasgow.
p Rothesay	63	2, 3, 5	47	2, 3, 6	61·6	49·7	55·4	+ 0·3	94	0	0	42	57·6		55·9	+1·3	0	0·00	- 1·04					
a Kilmarnock ..	65	5th	37	3rd	61·6	45·4	53·4	- 1·3	78	0							0	0·00	—	*4·6*	—	*34*	—	*Kilmarnock.*
a Colmonell ..	71	5th	37	6th	66·1	47·6	56·4	+ 0·7	101	0	0	33					0	0·00	- 0·93					
p Dumfries	65	5th	43	3rd	62·0	49·3	55·4	- 1·1	94	0	0	36	58·6		58·9		0	0·00	- 0·75	2·7	—	20	—	*Dumfries.*
p Cally, Gatehouse	68	5th	44	6th	62·0	47·9	54·6	+ 0·5	88	0							0	0·00	- 0·99					
b I. OF MAN.																								
p Douglas	63	31, 4, 6	51	2nd	61·4	53·3	57·2	+ 2·2	106	0	0	50					0	0·00	- 0·90	2·8	- 2·3	21	-18	Douglas.
											0	36	57·2	+2·4	55·3	+0·2	—	—	—	*4·5*	—	*34*	—	*Burnley.*
											0	43					—	—	—	4·0	—	30	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	65	3, 5	43	3rd	61·9	50·0	55·7	+ 0·8	96	0	0	36	57·6		55·5		0	0·00	- 0·91	3·7	—	28	—	Aspatria
p Newton Rigg ..	66	3rd	36	3rd	61·4	46·6	53·6	0·0	81	0	1	30	58·9	+2·7	56·5	+1·1	1	0·01	- 0·70	3·3	- 1·1	25	- 8	Newton Rigg.
p Stonyhurst ..	67	3rd	47	3rd	63·0	51·7	57·1	+ 2·0	106	0	0	40					0	0·00	- 1·06	4·8	+ 0·3	36	+ 3	Stonyhurst.
p Blackpool	68	6th	43	3rd	65·3	52·1	58·4	+ 1·7	115	0	0	34	59·1		56·2		0	0·00	- 0·76	4·0	- 0·6	30	- 5	Blackpool.
p Manchester (Whit. Pk.)	68	3rd	45	3rd	64·3	53·9	58·9	+ 2·3	118	0							1	0·02	- 0·89	*4·2*	+ *0·5*	*32*	+ *4*	*Whit. Park.*
a Liverpool (Bidston) ..	68	31st	49	3rd	64·9	53·4	58·9	+ 2·4	118	0	0	36	60·6	+1·9	60·0	+0·6	0	0·00	- 0·64	*2·9*	—	*22*	—	*Liverpool.*
a Hawarden Bridge ..	68	3rd	45	3rd	65·1	53·6	59·1	+ 1·4	120	0	0	40	60·5	+3·4	60·9	+2·4	—	—	—	*4·4*	- *0·5*	*33*	- *4*	*Southport.*
																				4·3	—	*32*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	67	31st	49	3rd	64·4	54·4	59·2	+ 1·5	120	0							0	0·00	- 0·59	3·6	- 1·1	27	- 8	Llandudno.
a Holyhead	65	4th	52	3rd	62·3	54·9	58·4	+ 1·4	115	0							0	0·00	- 0·66	*4·1*	—	*31*	—	*Holyhead.*
p Bettws-y-Coed ..																	—	—	—					Bettws-y-Coed.
																	—	—	—	3·2	—	24	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.
‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·3	—	25	—	Aberystwyth.
a Llangammarch Wells	66	31st	49	3, 6	61·6	51·7	56·4	+ 1·5	101	0	0	46	58·8	+2·3	56·0	+0·3	3	1·18	—	2·1	—	16	—	Llangammarch
a Pembroke	68	1st	54	31, 3, 4	64·1	55·0	59·3	+ 1·9	121	0	•	•	•	•	•	•	2	0·41	- 0·27	2·0	- 3·4	15	-26	Pembroke.[Wells
p Cardiff	67	31st	51	3rd	62·4	54·9	58·5	+ 0·7	116	0	0	47	60·0	+1·5	59·1	+0·3	5	2·27	+ 1·40	*1·3*	—	*10*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	67	31st	51	3rd	62·0	55·1	58·4	- 0·2	115	0	0	53	•	•	•	•	5	1·97	+ 1·30	*0·5*	—	*4*	—	*Clifton.*
a Shaftesbury	63	31st	49	3rd	60·0	52·9	56·3	- 0·8	100	0	•	•	59·8	•	59·4	•	6	2·97	+ 2·32	•	•	•	•	Shaftesbury.
a Arlington	71	31st	51	2, 6	64·1	54·7	59·2	+ 2·9	120	0	•	•	•	•	•	•	3	0·37	- 0·72	•	•	•	•	Arlington.
a Newquay	*66*	*3rd*	*54*	*2, 3*	*63·9*	*57·1*	*60·3*	*+ 1·7*	*128*	*0*	•	•	61·7	•	•	•	*6*	*1·58*	*+ 0·98*	1·1	- 4·8	8	-36	Newquay.
a Cullompton	67	31st	52	31st	63·7	54·7	59·0	+ 1·5	119	0	0	50	62·0	•	•	•	4	1·56	+ 0·93	0·1	- 5·2	1	-40	Cullompton.
a Portland	64	3, 6	55	2, 3, 4	62·9	57·1	59·9	+ 0·5	125	0	•	•	•	•	•	•	4	2·70	—	*0·4*	—	*3*	—	*Weymouth.*
p Plymouth	66	1, 4, 5	56	31, 3	65·0	58·0	61·3	+ 2·5	135	0	0	50	62·2	+1·8	•	•	5	1·89	+ 1·25	1·1	- 4·6	8	-35	Plymouth.
a Falmouth	67	31, 5	55	2nd	65·0	57·6	61·1	+ 2·6	134	0	•	•	•	•	•	•	6	1·03	+ 0·26	1·1	- 4·9	8	-38	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	61	4th	49	3rd	58·7	51·4	54·9	- 0·4	90	0	•	•	•	•	•	•	0	0·00	- 0·74	•	•	•	•	• •
a Blacksod Point ..	69	6th	49	3, 4	63·7	51·4	57·3	+ 1·6	107	0	•	•	•	•	•	•	0	0·00	- 1·00	•	•	•	•	• •
p Markree Castle ..	68	6th	41	2nd	63·7	48·4	55·7	+ 1·1	96	0	0	35	58·8	•	57·0	•	0	0·00	- 0·90	2·8	- 1·0	21	- 8	Markree Castle.
a Birr Castle	67	6th	47	2nd·	64·6	49·9	56·9	+ 1·4	104	0	•	•	•	•	•	•	3	0·25	- 0·43	*4·0*	- *0·4*	*30*	- *3*	*Birr Castle.*
b, East .. *p* Armagh	66	6th	41	31st	63·0	48·1	55·2	+ 0·3	92	0	0	32	58·9	+1·4	57·7	+0·6	0	0·00	- 0·70	4·0	0·0	30	0	Armagh.
a Donaghadee	63	6th	51	6th	59·9	52·9	56·2	+ 0·5	99	0	•	•	•	•	•	•	0	0·00	- 0·68	•	•	•	•	• •
10. IRELAND, S.											0	43	60·3	+2·4	58·7	+1·1	—	—	—	•	•	•	•	Trinity Coll.
											0	39	•	•	•	•	—	—	—	3·4	- 1·5	26	-12	Phœnix Park.
a, East .. *p* Dublin, City	64	31, 6	48	31st	61·9	53·9	57·7	+ 0·4	110	0	0	46	•	•	•	•	0	0·01	- 0·62	•	•	•	•	Dublin City.
a Kilkenny	67	6th	47	31, 2	64·6	51·0	57·5	+ 1·5	109	0	•	•	•	•	•	•	2	0·16	- 0·49	•	•	•	•	• •
a Waterford	67	1, 3	?48	2nd	65·6	?52·0	58·5	+ 1·7	116	0	•	•	•	•	•	•	2	0·16	- 0·59	•	•	•	•	• •
a Carrick-on-Suir ..	*67*	*6th*	*46*	*2nd*	*63·4*	*50·7*	*56·8*	—	*104*	*0*	0	36	•	•	•	•	*2*	*0·21*	—	*3·6*	—	*27*	—	*Carrick-on-Suir.*
b, West .. *a* Birr Castle	67	6th	47	2nd	64·6	49·9	56·9	+ 1·4	104	0	•	•	•	•	•	•	3	0·25	- 0·43	4·0	- 0·4	30	- 3	Birr Castle.
a Foynes	64	3, 5, 6	45	6th	62·1	50·6	56·1	- 0·5	99	0	•	•	•	•	•	•	1	0·05	- 0·72	•	•	•	•	• •
a Cahir	67	2nd	47	2nd	64·9	51·6	57·9	+ 1·6	111	0	•	•	•	•	•	•	1	0·10	—	•	•	•	•	• •
a Killarney	71	6th	52	31, 1, 4	65·0	53·5	59 0	+ 2·7	119	0	•	•	•	•	•	•	0	0·00	- 0·96	•	•	•	•	• •
a Valencia	68	4-6	52	3, 4, 6	64·7	53·4	58·8	+ 1·7	118	0	•	•	•	•	•	•	0	0·00	- 1·04	1·0	- 3·6	8	-27	Valencia.
a Roche's Point	67	6th	53	1, 2, 4	63·9	54·7	59·1	+ 1·9	120	0	•	•	•	•	•	•	1	0·06	- 0·72	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	67	1, 2	56	2nd	64·7	57·3	60·8	+ 1·4	132	0	•	•	•	•	•	•	3	0·66	+ 0·06	1·1	- 5·2	8	-39	Scilly.
a Jersey, St. Aubins ..	74	3rd	54	1st	69·9	57·4	63·4	+ 2·0	150	0	•	•	•	•	•	•	1	0·01	- 0·59	5·6	- 1·1	43	- 8	St. Heliers.
a Guernsey (Villa Carey)	73	4th	56	1, 3	67·9	57·4	62·4	+ 1·7	143	0	0	51	64·0	+1·6	62·0	-0·2	1	0·01	- 0·66	3·2	- 3·5	24	-26	Guernsey.*

Additional Sunshine Means:—*Bognor, 0·9 hrs. 7 %; Ramsgate, 1·4 hrs. 11 %; Rhyl, 3·7 hrs. 28 %; Salcombe, 0·5 hrs. 4 %; Tenby, 3·3 hrs. (-2·2) 25 %* (-17); *Torquay, 0·2 hrs. (-5·7) 2 %* (-43).
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, September 6th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	54	53	53·3	+1·0	SCOTLAND, W. ..	Lamlash	59	54	57·0	+1·8
	Kirkwall	56	52	54·9	+1·3		Ballantrae	58	53	55·9	+0·2
	Wick	55	53	53·9	+0·8	ENGLAND, N.W. ..	Port Erin	59	55	56·7	+0·3
SCOTLAND, E. ..	Cromarty	57	55	55·9	+0·9	ENGLAND, S.W. ..	Newquay	62	61	60·7	-0·1
	Pennan Bay	60	56	57·4	+3·2		Scilly	60	58	59·2	—
	Aberdeen, Cove Bay	56	55	55·7	+2·1		Plymouth‡	62	60	61·2	+2·4
ENGLAND, N.E. ..	Burnmouth, Berwick	55	53	53·5	-0·4		Salcombe	63	59	61·0	+1·5
	Scarborough	58	54	55·7	-0·1	IRELAND, N.W. ..	Sheephaven	60	58	58·7	+1·2
ENGLAND, E. ..	Shipwash Lightship	64	61	61·9	+0·1		Teelin	62	58	60·2	+1·7
ENGLAND, S.E. ..	Eastbourne‡	65	63	64·0	+1·6	IRELAND, S.W. ..	Cleggan	59	57	58·0	+1·6
							Seafield	63	59	61·3	+2·2

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905 An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-SIXTH WEEK—August 31st to September 6th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	69	37	59·3	46·3	52·5	− 0·7	74	− 5	0	0	1	− 4	0·01	−0·98	5·8	+2·1	42	+16
Eastern.																		
1. SCOTLAND, EAST ...	68	34	58·5	47·2	52·6	− 1·6	74	− 12	0	0	1	− 3	0·01	−0·51	2·7	−1·7	20	−13
2. ENGLAND, N.E.	69	45	61·3	52·2	56·6	+ 0·7	102	+ 4	0	0	4	+ 1	0·34	−0·26	1·8	−3·1	13	−23
3. ENGLAND, EAST ...	70	50	62·9	56·4	59·5	+ 1·8	123	+ 13	0	0	5	+ 2	0·67	+0·19	1·0	−4·4	7	−33
4. MIDLAND COUNTIES ...	69	42	62·9	53·2	57·9	+ 1·4	111	+ 9	0	0	4	+ 1	0·90	+0·39	1·3	−3·5	10	−26
5. ENGLAND, S.E.	70	50	63·5	56·9	60·1	+ 1·3	127	+ 9	0	0	5	+ 2	2·05	+1·48	0·6	−4·9	5	−38
Western.																		
6. SCOTLAND, WEST ...	71	37	62·2	49·0	55·3	+ 0·5	93	+ 3	0	0	0	− 3	0·00	−0·94	2·7	−2·0	21	−14
7. ENGLAND, N.W.	68	36	63·6	52·3	57·7	+ 1·4	110	+ 10	0	0	0	− 3	0·00	−0·70	3·8	−0·8	29	− 6
8. ENGLAND, S.W.	71	49	63·1	55·2	58·9	+ 1·4	118	+ 10	0	0	4	0	1·64	+0·93	1·5	−3·7	12	−28
9. IRELAND, NORTH ...	69	41	62·3	50·4	56·0	+ 0·8	98	+ 5	0	0	1	− 4	0·04	−0·74	3·4	−0·6	26	− 5
10. IRELAND, SOUTH ...	71	45	64·1	52·3	57·9	+ 1·5	111	+ 10	0	0	1	− 3	0·09	−0·62	2·8	−1·9	21	−14
11. ENGLISH CHANNEL ...	74	54	67·5	57·4	62·2	+ 2·1	141	+ 14	0	0	2	− 1	0·23	−0·33	3·3	−3·1	25	−24

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 1 Week, August 31st to September 6th, 1913.

0. SCOTLAND, NORTH ...	69	37	*	*	*	*	74	− 5	0	0	1	− 4	0·01	−0·98	5·8	+2·1	42	+16
Eastern.																		
1. SCOTLAND, EAST ...	68	34	*	*	*	*	74	− 12	0	0	1	− 3	0·01	−0·51	2·7	−1·7	20	−13
2. ENGLAND, N.E.	69	45	*	*	*	*	102	+ 4	0	0	4	+ 1	0·34	−0·26	1·8	−3·1	13	−23
3. ENGLAND, EAST ...	70	50	*	*	*	*	123	+ 13	0	0	5	+ 2	0·67	+0·19	1·0	−4·4	7	−33
4. MIDLAND COUNTIES ...	69	42	*	*	*	*	111	+ 9	0	0	4	+ 1	0·90	+0·39	1·3	−3·5	10	−26
5. ENGLAND, S.E.	70	50	*	*	*	*	127	+ 9	0	0	5	+ 2	2·05	+1·48	0·6	−4·9	5	−38
Western.																		
6. SCOTLAND, WEST ...	71	37	*	*	*	*	93	+ 3	0	0	0	− 3	0·00	−0·94	2·7	−2·0	21	−14
7. ENGLAND, N.W.	68	36	*	*	*	*	110	+ 10	0	0	0	− 3	0·00	−0·70	3·8	−0·8	29	− 6
8. ENGLAND, S.W.	71	49	*	*	*	*	118	+ 10	0	0	4	0	1·64	+0·93	1·5	−3·7	12	−28
9. IRELAND, NORTH ...	69	41	*	*	*	*	98	+ 5	0	0	1	− 4	0·04	−0·74	3·4	−0·6	26	− 5
10. IRELAND, SOUTH ...	71	45	*	*	*	*	111	+ 10	0	0	1	− 3	0·09	−0·62	2·8	−1·9	21	−14
11. ENGLISH CHANNEL ...	74	54	*	*	*	*	141	+ 14	0	0	2	− 1	0·23	−0·33	3·3	−3·1	25	−24

THE YEAR.—Aggregates, &c., for the Period of 36 Weeks, December 29th, 1912, to September 6th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,605	− 28	424	−133	150	−15	28·72	−3·68	3·3	−0·3	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,745	−111	601	− 19	130	− 7	17·39	−2·70	3·8	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	2,032	− 16	406	− 69	122	− 1	14·66	−1·40	3·8	−0·8	28	− 7
3. ENGLAND, EAST ...	84	20	*	*	*	*	2,359	− 11	303	−218	118	− 1	13·68	−1·71	4·2	−0·8	32	− 7
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,289	− 49	392	−141	119	+ 1	17·83	+0·56	3·6	−0·9	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	2,472	− 65	221	−160	114	+ 1	17·28	+0·60	4·3	−0·8	33	− 6
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	1,950	− 43	323	−102	138	− 5	26·30	−2·99	3·9	−0·5	29	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,121	− 46	298	− 88	133	+ 2	22·31	+0·40	4·2	−0·3	31	− 3
8. ENGLAND, S.W.	83	19	*	*	*	*	2,365	− 35	221	− 80	134	+ 5	25·44	+2·08	4·4	−0·6	33	− 5
9. IRELAND, NORTH ...	77	21	*	*	*	*	1,968	−112	297	− 48	153	− 4	24·23	−0·41	3·8	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,299	− 88	243	− 16	153	+14	27·62	+1·73	4·1	−0·4	31	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	2,676	− 37	38	− 71	130	− 6	18·50	−0·74	4·9	−1·1	37	− 9

M.O., September 10, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 37. THIRTY-SEVENTH WEEK, SUNDAY, SEPTEMBER 7TH, TO SATURDAY, SEPTEMBER 13TH, 1913.

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I.—General Remarks.

Weather. Very little rain was experienced in the eastern and southern districts of England, but in the north and west showery conditions were general, and in various parts of Scotland, Ireland and the west and south-west of Great Britain the rain was heavy. A thunderstorm occurred at Bognor on the 13th.

Temperature differed little from the normal generally, but was 1°·5 below it in Scotland East. The highest of the maxima were registered mostly during the early days of the week in Scotland, but later in England and Ireland, the values ranging from 74° in England North-East, and 73° in England South-East and Ireland South to 66° in Scotland West. The lowest of the minima, which occurred in most localities during the earlier half of the period, varied from 28° in Scotland East to 40° in England South-East and Ireland South, 42° in England East, and 48° in the English Channel. The lowest grass readings were 23° at West Linton, 27° at Balmoral, 28° at Southport, and 29° at Birmingham, Glasgow, Burnley and Blackpool. At a depth both of 1 foot and 4 feet the temperature of the soil was in most places above the normal, but at a few isolated stations the thermometer at 4 feet was slightly below the average.

Rainfall exceeded the average in all the western and northern districts, as well as in the English Channel, but was less elsewhere. Falls of more than an inch in 24 hours were recorded at Fort William on the 11th, at Llandudno and Pembroke on the 12th, and at various places in Scotland, Ireland and the west and north-west of England on the 13th. The largest falls were 1·45 in. at Llandudno, 1·67 in. at Armagh, and 1·74 in. at Pembroke.

Bright Sunshine was below the normal in the west and north generally, but above it in most of the English districts. In England South-East the daily mean was 7 hours, and the percentage of the possible duration 55, but in Scotland North and East the daily mean was only about 2·5 hours, and the percentage of the possible 20 or less.

Mean Temperature of the Sea. The sea temperature was above the average at all stations except Scarborough, and was appreciably higher than during the corresponding week of last year. The values ranged from 62° at Eastbourne and 61° at the Shipwash Lightship, at Seafield, and on the south-west coast of England to 54° at Kirkwall and Scarborough, and to 53° at Lerwick.

Barometer and Wind. Until the 10th the pressure distribution was mainly anticyclonic, but a temporary interruption occurred on Tuesday, when a shallow depression passed southwards over our western districts. On the 11th the anticyclonic system began to move southwards, while a very large depression over the Icelandic region extended over these Islands, and caused strong winds or gales locally in the north. Later in the week a secondary "V" shaped disturbance appeared over the United Kingdom from the Atlantic, and during the night of Friday–Saturday this developed into a separate system, its centre at 7 a.m. on Saturday lying over the Bristol Channel. It subsequently increased in intensity and moved slowly and erratically, while the wind increased from the North-Eastward on our northern coasts, and from the Southward or South-Westward in the south and south-west.

THE WEEK.

[For explanation of the terms "Unusual," &c., *see* p. 147.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Heavy	Moderate	Light	Moderate	Light	Heavy	Heavy	Moderate	Heavy	Heavy	Heavy
	Sunshine ...	Scanty	Scanty	Abundant	Abundant	Moderate	Abundant	Scanty	Moderate	Moderate	Scanty	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 2 weeks from Aug. 31st, 1913.	Warmth ...	0*0	0*0	0*0	1*0	1·0	1*0	0*0	1*0	1*0	0*0	1*0	1*0
	Rainfall ...	0*1	1*1	0*0	1*1	1*0	1·1	1*1	1*1	1*0	1*1	1*1	1*0
	Sunshine ...	1*1	0*2	1*1	1*1	0*1	1*1	0*2	0*1	0*1	0*1	0*1	0*1

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1*7	3*5	3*5	0*5	3*4	0*7	3*6	3*7	2*5	4*5	3*4	1*6
	Rainfall ...	5*5	6*4	4*5	6*6	3*8	4*9	2*6	2*5	4*8	2*6	2*8	4*7
	Sunshine ...	3*8	4*8	2*4	2*6	1*5	3*5	1*5	5*5	4*6	3*5	1*5	4*6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5*3	5*3	6*2	5*1	6*2	7*1	8*3	6*1	6*2	9*1	8*3	8*1
	Rainfall ...	6*5	5*3	4*3	5*2	5*3	5*3	5*3	5*3	7*3	6*2	6*2	5*4
	Sunshine ...	1*6	0*7	1*8	2*7	2*9	3*6	0*9	2*4	1*8	0*8	0*8	1*9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2*5	2*5	5*2	5*2	4*2	4*2	2*4	4*3	3*2	1*3	1*3	3*4
	Rainfall ...	6*2	5*3	5*4	5*2	7*3	6*1	8*2	7*3	6*1	7*2	6*1	7*3
	Sunshine ...	3*3	2*3	1*4	2*6	2*5	2*4	1*8	1*4	0*6	2*5	1*6	0*10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4*3	2*4	3*5	3*5	3*5	2*6	3*4	3*5	5*5	3*5	4*4	1*6
	Rainfall ...	2*8	1*9	0*10	1*5	0*9	1*9	2*7	3*8	1*11	1*8	2*9	1*5
	Sunshine ...	4*5	4*4	4*7	2*7	2*8	1*7	5*5	6*5	3*4	6*6	5*4	3*9

(31736—24.) Wt. 196—786. 450. 9/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	57	*11th*	*45*	*10th*	*54·3*	*47·3*	*50·6*	—	*60*	*0*	•	•	52·2	•	•	•	*7*	*0·48*	—	*2·4*	—	*18*	—	*Baltasound.*
a Islands .. *a* Lerwick	57	11th	47	10, 13	54·7	48·9	51·7	+ 0·9	68	0	•	•	•	•	•	•	7	0·78	—	1·4	- 2·3	11	-17	Deerness.
a Stornoway	61	7th	37	13th	57·9	45·0	51·1	- 0·9	64	0	•	•	•	•	•	•	5	0·80	- 0·21	2·8	- 1·1	22	- 8	Stornoway.
a Castlebay, Barra Isd.‡..	*58*	*7, 9-11*	*43*	*13th*	*57·0*	*50·3*	*53·5*	+ *0·3*	*81*	*0*	•	•	•	•	•	•	*5*	*0·60*	—	*4·8*	—	*37*	—	*Castlebay.*
b, Mainland. *a* Wick	59	10th	37	13th	56·7	46·3	51·3	- 0·8	65	0	•	•	•	•	•	•	5	1·21	+ 0·61	•	•	•	•	
p Strathpeffer	68	7th	37	7, 13	62·0	45·4	53·3	+ 1·0	79	0	•	•	•	•	•	•	6	0·43	- 0·14	2·2	- 1·7	17	-13	Strathpeffer.
p Glencarron	61	7th	37	7th	56·6	42·3	49·1	- 2·0	50	0	•	•	•	•	•	•	7	2·01	+ 0·09	•	•	•	•	
p Fort Augustus.. ..	66	7th	33	7th	59·7	43·7	51·3	- 1·6	65	0	•	•	•	•	•	•	4	0·84	- 0·06	2·3	- 0·5	18	- 4	Fort Augustus.
p Fort William	65	7, 8	36	7th	59·4	43·9	51·3	- 2·1	65	0	•	•	•	•	•	•	5	1·68	+ 0·03	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. .. *b*	68	11th	34	7th	61·4	44·1	52·3	- 1·2	72	0	0	34	54·8	+0·5	54·5	-0·2	—	—	—	2·4	—	19	—	Crathes S.
a Nairn .. .. .. *b*	65	7th	33	7th	59·4	41·4	50·0	- 3·1	59	2	•	•	•	•	•	•	5	1·33	+ 0·73	*2·2*	—	*17*	—	*Gordon Castle*
a Aberdeen ..	67	11th	43	8, 9	60·9	46·9	53·6	+ 0·4	81	0	•	•	•	•	53·7	+0·9	6	0·67	+ 0·10	2·2	- 2·0	17	-15	Nairn.
a Balmoral ..	69	7th	30	7th	60·3	41·8	50·5	+ 0·6	61	1	1	27	•	•	•	•	7	1·13	+ 0·47	•	•	•	•	Aberdeen.
p Crieff	67	7th	40	9th	60·3	44·6	52·1	- 1·8	71	0	•	•	•	•	•	•	5	0·50	- 0·25	2·5	—	19	—	Balmoral.
a Leith .. .. *b*	64	11, 12	44	7th	61·3	48·4	54·5	- 0·5	88	0	•	•	•	•	•	•	4	1·11	+ 0·67	•	•	•	•	Balruddery.
p West Linton .. *b*	62	7th	28	7th	56·9	40·1	48·1	- 4·0	51	5	2	23	•	•	•	•	6	1·24	—	*2·6*	—	*20*	—	*West Linton.*
p Marchmont .. *b*	66	12th	40	7th	60·7	45·1	52·5	0·0	74	0	0	34	54·4	+1·1	•	•	3	0·81	+ 0·18	3·3	- 0·7	26	- 6	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	72	12th	38	8th	62·4	46·7	54·2	+ 0·6	85	0	0	36	54·7	+2·2	54·4	+1·1	5	0·62	+ 0·06	4·9	—	38	—	Cockle Park.
a Shields	69	12th	42	8th	62·4	48·7	55·2	+ 0·6	92	0	•	•	•	•	•	•	4	0·40	- 0·04	•	•	•	•	
p Durham	71	11th	35	8th	63·0	45·7	53·9	- 0·5	83	0	0	31	•	•	•	•	4	0·67	+ 0·22	4·3	+ 0·3	33	+ 2	Durham.
a, North .. *p* Rounton	70	11th	36	10th	64·1	44·6	53·9	- 0·1	83	0	0	31	56·2	•	•	•	4	0·41	- 0·02	•	•	•	•	Rounton.
a West Witton	*69*	*12th*	*37*	*8th*	*64·0*	*47·1*	*55·1*	—	*92*	*0*	0	32	55·3	•	54·6	•	*2*	*0·69*	—	•	•	•	•	*West Witton.*
p Scarborough	74	11th	45	8th	66·1	51·6	58·5	+ 2·9	116	0	•	•	•	•	59·0†	•	2	0·10	- 0·36	7·7	—	60	—	Scarborough.
p York	72	12th	36	8th	68·0	45·3	56·1	+ 0·3	99	0	•	•	57·6	+1·2	57·0	+0·8	2	0·17	- 0·25	5·9	+ 1·8	46	+14	York.
											0	32	55·9	+0·4	56·0	+0·1	—	—	—	*5·7*	—	*44*	—	*Hull.*
a Spurn Head	69	11, 12	48	9, 10	63·6	50·3	56·6	- 0·2	102	0	•	•	•	•	•	•	2	0·05	- 0·30	*7·6*	—	*59*	—	*Spurn Head.*
b, South .. *a* Lincoln	72	11th	39	10th	66·7	48·6	57·2	+ 0·8	106	0	•	•	57·5	+0·9	57·7	+1·1	2	0·05	- 0·37	•	•	•	•	Lincoln.
a Fulbeck	72	11th	40	10th	67·0	47·4	56·7	+ 0·3	103	0	1	30	58·6	+0·2	57·3	-0·3	2	0·05	- 0·38	5·6	—	43	—	Rauceby.
											•	•	•	•	•	•	—	—	—	7·3	—	57	—	Skegness.
											0	41	59·4	+0·4	59·5	+0·7	—	—	—	*6·3*	—	*50*	—	*Lowestoft.*
3. ENGLAND, E.																								
p Cromer	71	11, 13	50	8, 9	65·7	51·9	58·5	+ 2·0	116	0	•	•	•	•	•	•	2	0·08	—	6·6	—	51	—	Cromer.
p Little Massingham ..	70	13th	45	10th	64·7	48·9	56·4	+ 0·1	101	0	0	41	•	•	•	•	0	0·00	- 0·57	6·0	+ 1·2	47	+ 9	Lit. Massingham.
a, North .. *a* Yarmouth	67	12th	46	9th	65·0	51·4	57·9	+ 0·9	111	0	•	•	60·0	+0·8	59·4	-0·6	1	0·01	- 0·46	6·6	—	51	—	Yarmouth.
a Norwich	70	12th	42	9th	65·6	48·7	56·7	- 0·3	103	0	0	35	58·3	•	•	•	1	0·12	—	*6·3*	—	*50*	—	*Norwich.*
p Geldeston	71	11th	42	9th	64·1	48·7	56·0	- 0·6	98	0	•	•	•	•	•	•	2	0·06	- 0·42	5·8	+ 0·5	46	+ 4	Geldeston.
											0	39	58·8	+0·7	59·0	+0·3	1	0·02	- 0·41	6·2	+ 1·1	49	+ 8	Cambridge.
p Cambridge	70	12, 13	44	9th	67·0	48·3	57·2	- 0·1	106	0	•	•	•	•	•	•	*2*	*0·02*	—	*7·8*	—	*62*	—	*Felixstowe.*
a Felixstowe	*69*	*11th*	*46*	*9, 10*	*65·9*	*52·0*	*58·6*	+ *0·8*	*116*	*0*	0	42	59·2	+0·6	59·7	+0·6	1	0·06	—	7·7	—	61	—	Clacton.
b, South .. *a* Clacton-on-Sea ..	68	11th	47	9, 10	65·9	51·3	58·3	+ 0·8	114	0	•	•	•	•	•	•	2	0·17	- 0·33	5·6	+ 2·6	44	+ 5	Rothamsted.
a Rothamsted	69	13th	43	9, 10	65·7	48·1	56·5	+ 0·7	102	0	•	•	•	•	•	•	*2*	*0·09*	- *0·33*	*7·1*	—	*56*	—	*Southend.*
a Shoeburyness	*69*	*11-13*	*45*	*10th*	*67·4*	*50·1*	*58·3*	- *0·7*	*114*	*0*	0	44	61·3	+0·6	•	•								
p Tottenham	70	11, 13	45	10th	65·9	51·1	58·1	+ 0·5	113	0	0	41	•	•	61·2	+0·7	1	0·01	—	6·2	—	49	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	69	12th	41	8th	63·9	48·3	55·7	+ 1·6	96	0	0	34	56·9	+1·2	55·8	+0·2	—	—	—	*4·3*	—	*33*	—	*Huddersfield.*
a Bawtry	70	11, 12	35	8th	66·1	48·4	56·8	+ 1·3	104	0	0	32	55·7	+1·0	55·8	+1·6	2	0·20	- 0·38	6·2	—	48	—	Harrogate.
p Buxton	*65*	*12th*	*34*	*8th*	*60·7*	*45·7*	*52·8*	+ *0·2*	*76*	*0*	0	31	56·4	•	56·0	•	1	0·04	- 0·35	5·1	+ 1·0	40	+ 8	Worksop.
a, East .. *a* Nottingham	70	11th	39	10th	65·4	45·7	55·1	- 0·8	92	0	0	33	56·3	+2·0	55·1	+0·7	*2*	*0·26*	- *0·61*	*4·5*	—	*35*	—	*Buxton.*
p Birmingham, Edgbsn.	69	11th	43	10th	64·1	49·6	56·5	+ 0·7	102	0	0	34	56·7	+1·1	57·6	+0·2	2	0·12	- 0·34	4·7	—	36	—	Nottingham.
a Raunds	72	13th	39	10th	67·6	46·9	56·8	+ 0·8	104	0	1	29	54·3	+0·7	53·6	+0·1	3	0·41	- 0·07	3·3	—	26	—	Birmingham.
p Oxford	69	11th	42	10th	66·0	49·3	57·3	+ 0·6	107	0	1	30	58·1	•	57·1	•	2	0·04	—	•	•	•	•	Raunds.
											0	36	•	•	•	•	2	0·32	- 0·11	4·6	- 0·4	36	- 3	Oxford.
											0	34	55·7	-1·0	55·1	-1·2	—	—	—	4·6	—	36	—	Sheffield.
a Cheadle	70	11th	42	10th	63·4	48·4	55·5	+ 1·3	95	0	0	38	•	•	•	•	1	0·25	- 0·37	•	•	•	•	Cheadle.
p Shrewsbury	72	11th	35	8th	66·1	46·9	56·0	- 0·2	98	0	0	32	•	•	•	•	3	0·17	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	71	11th	39	10th	65·7	47·4	56·1	0·0	99	0	0	33	•	•	•	•	3	0·42	+ 0·46	•	•	•	•	Hereford.
a Cirencester	70	10th	44	10th	66·2	49·0	57·2	+ 2·2	106	0	0	42	58·6	•	57·4	•	3	0·32	- 0·24	6·1	+ 1·3	48	+10	Cirencester.
a Bath	69	9, 11	43	10th	67·3	48·7	57·6	+ 0·5	109	0	•	•	•	•	•	•	2	0·23	- 0·33	6·3	—	50	—	Bath.
5. ENGLAND, S.E.																								
											0	40	61·4	+3·1	59·8	+0·5	—	—	—	•	•	•	•	Canterbury.
p Kew	69	11th	46	10th	66·6	50·9	58·4	+ 1·6	115	0	0	38	58·6	+0·8	57·9	+0·2	2	0·15	- 0·34	6·2	+ 1·3	49	+10	Kew.
a Marlborough	69	11th	40	10th	66·0	46·1	55·6	+ 0·8	95	0	0	34	•	•	57·2	•	2	0·31	- 0·23	5·9	+ 1·4	47	+11	Marlborough.
a Margate	70	11, 12	51	11th	67·1	54·9	60·7	+ 2·0	131	0	0	44	58·7	+0·5	57·1	•	1	0·09	- 0·37	8·0	+ 2·9	63	+23	Margate.
a Wisley, Surrey ..	70	11th	40	10th	66·7	48·3	57·1	- 0·5	106	0	1	30	58·5	+0·4	58·3	-0·6	2	0·32	—	6·0	—	47	—	Wisley.
											0	43	61·5	+2·1	60·2	+0·4	—	—	—	6·6	—	52	—	Worthing.
p Salisbury (Wilton) ..	73	11th	42	10th	68·1	48·0	57·6	+ 0·8	109	0	0	40	60·6	•	•	•	3	0·24	+ 0·29	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	67	8, 13	47	9, 10	65·9	53·0	59·1	+ 0·4	120	0	•	•	•	•	•	•	1	0·10	- 0·39	7·7	—	61	•	Littlestone.
p Hastings..	69	8th	48	10th	66·6	53·0	59·5	+ 1·0	123	0	0	43	60·5	•	60·2	•	2	0·20	- 0·41	*8·0*	+ *2·3*	*63*	+*18*	*Hastings.*
p Southampton	71	11th	47	10, 11	68·0	51·9	59·6	+ 0·9	123	0	0	42	•	•	•	•	3	0·13	- 0·41	7·2	+ 1·7	57	+14	Southampton.
a Ventnor	68	8, 9	49	10th	66·7	53·4	59·7	0·0	124	0	•	•	•	•	•	•	2	0·08	- 0·52	7·2	+ 1·3	57	+11	Ventnor.
											0	42	60·5	+0·9	60·2	-0·2	—	—	—	*6·8*	—	*54*	—	*Portsmouth.*
											•	•	60·9	•	60·5	•	—	—	—	7·9	+ 2·2	62	+17	Eastbourne.
											•	•	60·0	•	60·1	•	—	—	—	*7·4*	—	*58*	—	*Bournemouth.*
LONDON.											0	44	•	•	61·4	•	—	—	—	*7·0*	+ *1·3*	*55*	+*10*	*Brighton.*
a Westminster	*70*	*8, 13*	*48*	*10th*	*68·3*	*52·1*	*59·8*	+ *2·2*	*125*	*0*	0	44	•	•	•	•	*2*	*0·08*	- *0·37*	*6·2*	+ *2·0*	*49*	+*16*	*Westminster.*
a Greenwich	*72*	*13th*	*45*	*10th*	*69·3*	*49·6*	*59·0*	+ *0·8*	*119*	*0*	0	35	•	•	•	•	*2*	*0·07*	- *0·38*	*6·6*	+ *1·2*	*52*	+*10*	*Greenwich.*
a Hampstead	*68*	*11th*	*44*	*10th*	*65·7*	*49·9*	*57·4*	—	*108*	*0*	0	35	•	•	•	•	*2*	*0·11*	—	*6·0*	—	*47*	—	*Hampstead.*
a Camden Square ..	*72*	*8, 11, 13*	*46*	*10th*	*70·1*	*48·9*	*59·5*	—	*123*	*0*	0	42	•	•	•	•	*2*	*0·10*	—	*5·4*	—	*43*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. *b*	65	7th	38	7th	57·7	46·0	51·6	- 2·8	67	0	•	•	•	•	•	•	6	1·79	+ 0·66	•	•	•	•	
p Glasgow .. .. *b*	62	9th	40	7th	58·3	46·4	52·1	- 1·3	71	0	1	29	•	•	•	•	5	1·20	+ 0·43	1·7	- 1·8	13	-14	Glasgow.
p Rothesay .. *b*	63	9th	44	13th	59·4	46·1	52·4	- 1·8	73	0	0	39	55·3	•	55·1	+1·2	6	1·15	+ 0·13	•	•	•	•	
a Kilmarnock	65	7th	34	7th	59·9	43·3	51·2	- 2·4	64	0	•	•	•	•	•	•	4	1·21	—	2·7	—	*21*	—	*Kilmarnock.*
a Colmonell	65	7th	38	7th	60·9	46·1	53·1	- 1·6	78	0	0	35	•	•	•	•	5	1·53	+ 0·60	•	•	•	•	
p Dumfries	65	7th	39	8th	61·6	45·3	53·1	- 1·8	78	0	0	33	56·8	•	58·1	•	3	1·45	+ 0·73	*2·8*	—	*22*	—	*Dumfries.*
p Cally, Gatehouse ..	66	7th	40	7th	62·0	44·1	52·6	- 0·4	74	0	•	•	•	•	•	•	3	1·23	+ 0·30	•	•	•	•	
b I. OF MAN.																								
p Douglas	64	11th	44	8th	60·4	48·9	54·4	0·0	87	0	0	40	•	•	•	•	4	1·15	+ 0·25	4·7	- 0·2	36	- 2	Douglas.
											1	29	55·6	+2·0	55·2	+0·8	—	—	—	*4·2*	—	*33*	—	*Burnley.*
											0	32	•	•	•	•	—	—	—	5·2	—	40	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	65	7th	40	7th	61·1	45·9	53·1	- 0·8	78	0	0	34	55·9	•	55·2	•	4	2·11	+ 1·23	3·6	—	28	—	Aspatria.
p Newton Rigg	66	7, 11	35	8th	62·7	43·7	52·7	+ 0·3	75	0	1	30	55·6	0·0	55·9	+1·1	3	1·30	+ 0·62	4·4	+ 0·2	34	+ 1	Newton Rigg.
p Stonyhurst	67	12th	40	8th	62·6	47·6	54·7	+ 0·2	89	0	0	32	•	•	•	•	4	0·57	- 0·43	4·3	0·0	33	0	Stonyhurst.
p Blackpool	69	12th	39	8th	64·1	47·7	55·5	- 0·3	95	0	2	29	57·3	•	56·0	•	4	0·73	- 0·01	5·0	+ 0·6	39	+ 5	Blackpool.
p Manchester (Whit. Pk.)	72	12th	41	10th	65·3	48·6	56·6	+ 0·7	102	0	•	•	•	•	•	•	4	0·20	- 0·42	*3·6*	+ *0·1*	*28*	+ *1*	*Whit. Park.*
a Liverpool (Bidston) ..	70	12th	47	8th	63·6	51·4	57·2	+ 1·6	106	0	•	•	•	•	•	•	5	0·61	- 0·01	*5·5*	—	*43*	—	*Liverpool.*
a Hawarden Bridge ..	71	12th	38	8th	64·4	49·1	56·4	- 0·4	101	0	1	28	58·4	+1·0	59·0	+0·4	4	0·19	- 0·27	*5·5*	+ *1·0*	*43*	+ 7	*Southport.*
											0	36	58·1	+1·9	60·5	+2·7	—	—	—	*3·4*	—	*26*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	69	12th	45	8th	63·6	51·7	57·4	+ 0·6	108	0	•	•	•	•	•	•	5	2·14	+ 1·59	5·3	+ 0·9	41	+ 7	Llandudno.
a Holyhead	65	11, 12	48	8th	61·6	52·7	56·9	+ 0·4	104	0	•	•	•	•	•	•	5	2·38	+ 1·73	4·7	—	*36*	—	*Holyhead.*
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	5·3	—	41	—	Aberdovey.

* For notes see also opposite page.

† At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				5·2	—	41	—	Aberystwyth.
a Llangammarch Wells	68	11th	36	8th	64·4	46·9	55·2	+ 1·1	92	0	0	34	56·9	+1·4	56·0	+0·8	4	1·14	—	4·4	—	35	—	Llangammarch
a Pembroke	65	7th	49	8th	62·0	52·4	57·0	+ 0·2	105	0	•	•	•	•	•	•	5	3·18	+ 2·50	4·6	- 0·5	36	- 4	Pembroke.[Wells
p Cardiff	68	12th	46	10th	65·9	51·6	58·4	+ 1·8	115	0	0	41	58·8	+1·8	58·7	+0·6	2	0·44	- 0·40	*5·7*	—	*45*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	68	11th	46	10th	66·3	51·6	58·6	+ 1·0	116	0	0	47	•	•	•	•	3	1·16	+ 0·53	*6·3*	—	*50*	—	*Clifton.*
a Shaftesbury	69	11, 12	44	10th	65·3	48·3	56·4	+ 0·4	101	0	•	•	58·7	•	58·9	•	3	0·23	- 0·41	•	•	•	•	Shaftesbury.
a Arlington	66	12th	45	10th	63·3	49·3	56·0	+ 0·6	98	0	•	•	•	•	•	•	4	0·72	- 0·35	•	•	•	•	Arlington.
a Newquay	*69*	*12th*	*50*	*10th*	*63·0*	*53·1*	*57·8*	*- 0·1*	*111*	*0*	•	•	60·8	•	•	•	4	0·92	+ 0·26	5·2	- 0·2	41	- 2	Newquay.
a Cullompton	71	11th	42	11th	67·7	48·1	57·4	+ 1·0	108	0	0	41	60·2	•	•	•	2	0·22	- 0·38	5·1	+ 0·1	40	+ 1	Cullompton.
a Portland	67	7, 8	50	10th	65·0	53·7	59·1	+ 0·4	120	0	•	•	•	•	•	•	1	0·41	—	*7·3*	—	*58*	—	*Weymouth.*
p Plymouth	69	9th	49	11th	65·6	53·1	59·1	+ 1·3	120	0	0	42	61·0	+2·0	•	•	3	0·23	- 0·40	5·6	+ 0·2	44	+ 2	Plymouth.
a Falmouth	71	11th	48	8th	65·9	52·6	58·9	+ 1·2	118	0	•	•	•	•	•	•	3	0·31	- 0·47	5·7	+ 0·1	45	+ 1	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	65	7th	47	13th	58·1	50·0	53·9	- 0·9	83	0	•	•	•	•	•	•	5	0·80	+ 0·08	•	•	•	•	• •
a Blacksod Point ..	65	7th	45	13th	62·1	51·4	56·5	+ 1·6	102	0	•	•	•	•	•	•	6	1·00	+ 0·03	•	•	•	•	• •
p Markree Castle ..	69	7th	38	13th	64·1	44·0	53·6	- 0·3	81	0	0	34	58·6	•	56·8	•	5	0·75	- 0·11	3·6	- 0·1	28	0	Markree Castle.
a Birr Castle	68	11th	40	10th	63·9	45·0	54·0	- 0·6	84	0	•	•	•	•	•	•	5	0·75	+ 0·15	*2·9*	*- 1·4*	*23*	*- 11*	*Birr Castle.*
b, East .. *p* Armagh	68	11th	44	10, 13	62·0	46·7	54·0	- 0·1	84	0	0	34	57·6	+0·9	57·1	+0·6	6	1·98	+ 1·33	2·3	- 1·6	18	-12	Armagh.
a Donaghadee	67	8th	49	8, 13	61·6	50·6	55·8	+ 0·7	97	0	•	•	•	•	•	•	6	0·99	+ 0·34	•	•	•	•	• •
											0	40	59·8	+2·7	56·1	-0·9	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	34	•	•	•	•	—	—	—	3·6	- 1·2	28	- 9	Phœnix Park.
a, East .. *p* Dublin, City	70	11th	46	8, 10	64·0	50·0	56·7	+ 0·5	103	0	0	43	•	•	•	•	4	1·74	+ 1·22	•	•	•	•	Dublin City.
a Kilkenny	71	11th	40	8th	65·0	48·7	56·5	+ 1·3	102	0	•	•	•	•	•	•	5	1·01	+ 0·41	•	•	•	•	• •
a Waterford	71	11th	44	7th	65·3	49·0	56·8	+ 1·0	104	0	•	•	•	•	•	•	2	0·71	+ 0·01	•	•	•	•	• •
a Carrick-on-Suir ..	*71*	*11th*	*44*	*10th*	*64·3*	*49·9*	*56·8*	—	*104*	*0*	*0*	*35*	•	•	•	•	*4*	*1·16*	—	*3·2*	—	*25*	—	*Carrick-on-Suir.*
a Birr Castle	68	11th	40	10th	63·9	45·0	54·0	- 0·6	84	0	•	•	•	•	•	•	5	0·75	+ 0·15	2·9	- 1·4	23	-11	Birr Castle.
a Foynes	67	7th	44	13th	63·7	50·4	56·7	+ 0·9	103	0	•	•	•	•	•	•	5	0·64	- 0·06	•	•	•	•	• •
b, West .. *a* Cahir	71	11th	41	8th	65·7	50·3	57·6	+ 2·3	109	0	•	•	•	•	•	•	5	0·71	—	•	•	•	•	• •
a Killarney	72	8th	42	7, 13	67·7	50·1	58·5	+ 2·9	116	0	•	•	•	•	•	•	6	0·50	- 0·42	•	•	•	•	• •
a Valencia	67	7th	46	13th	63·4	51·0	56·9	+ 0·2	104	0	•	•	•	•	•	•	6	0·73	- 0·27	5·1	+ 0·7	40	+ 6	Valencia.
a Roche's Point ..	73	11th	50	8, 13	65·4	52·1	58·4	+ 1·7	115	0	•	•	•	•	•	•	5	0·83	+ 0·12	4·5	•	35	•	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	66	9, 11	53	11th	63·1	55·0	58·9	+ 0·1	118	0	•	•	•	•	•	•	4	2·09	+ 1·49	5·1	- 0·7	40	- 6	Scilly.
a Jersey, St. Aubins ..	69	8, 9	48	11th	67·3	54·6	60·7	0·0	131	0	•	•	•	•	•	•	2	0·03	- 0·60	7·6	+ 1·3	60	+11	St. Heliers.
a Guernsey (Villa Carey)	69	9th	50	11th	66·9	54·1	60·2	+ 0·2	127	0	0	42	62·4	+1·0	62·0	+0·6	4	0·40	- 0·30	7·1	+ 1·0	56	+ 8	Guernsey.*

Additional Sunshine Means:—*Bognor, 6·8 hrs. 54 %; Ramsgate, 8·1 hrs. 64 %; Rhyl, 5·7 hrs. 44 %; Salcombe, 6·5 hrs. 51 %; Tenby, 5·5 hrs. (+0·3) 43 % (+2); Torquay, 6·1 hrs. (+0·6) 48 % (+5).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, September 13th.

Taken daily at or about sunrise and at 4 p.m.

District.	Station.	Highest.	Lowest.	Mean.	Difference from Average.	District.	Station.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	53	53	53·0	+1·2	SCOTLAND, W. ..	Lamlash	58	55	56·2	+1·1
	Kirkwall	55	53	54·4	+1·4		Ballantrae	58	53	55·5	+0·6
	Wick	54	52	53·5	+0·9	ENGLAND, N.W. ..	Port Erin	58	56	56·5	+0·4
SCOTLAND, E. ..	Cromarty	57	54	55·3	+0·9	ENGLAND, S.W. ..	Newquay	61	61	61·0	+0·6
	Pennan Bay	58	55	56·2	+2·4		Scilly	61	58	59·8	—
	Aberdeen, Cove Bay	56	55	55·7	+2·5		Plymouth‡	62	61	61·0	+1·7
ENGLAND, N.E. ..	Burnmouth, Berwick	—	—	—	—		Salcombe	63	59	60·9	+1·8
	Scarborough	56	53	54·2	-0·8	IRELAND, N.W. ..	Sheephaven	60	57	58·0	+0·5
ENGLAND, E. ..	Shipwash Lightship	63	57	61·0	+0·1		Teelin	62	53	59·8	+1·9
ENGLAND, S.E. ..	Eastbourne‡	63	61	62·0	+0·8	IRELAND, S.W. ..	Cleggan	59	57	57·8	+2·0
							Seafield	63	55	60·7	+2·0

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-SEVENTH WEEK—September 7th to September 13th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	68	33	58·1	45·1	51·3	− 1·3	65	− 9	0	0	6	+ 2	1·10	+0·19	2·2	−1·4	17	−11
Eastern.																		
1. SCOTLAND, EAST ...	69	28	60·2	44·0	51·7	− 1·5	68	− 12	0	− 1	5	+ 2	1·00	+0·56	2·6	−1·6	20	−13
2. ENGLAND, N.E.	74	35	64·8	47·7	55·8	+ 0·9	97	+ 5	0	0	3	0	0·28	−0·18	6·0	+1·2	46	+ 9
3. ENGLAND, EAST ...	71	42	65·5	49·8	57·3	+ 0·5	107	+ 3	0	0	1	− 1	0·06	−0·33	6·3	+1·1	50	+ 9
4. MIDLAND COUNTIES ...	72	35	65·6	48·1	56·4	+ 0·7	101	+ 5	0	0	2	0	0·27	−0·13	5·1	+0·4	40	+ 4
5. ENGLAND, S.E.	73	40	66·9	51·1	58·6	+ 0·6	116	+ 4	0	0	2	0	0·18	−0·26	7·0	+1·6	55	+12
Western.																		
6. SCOTLAND, WEST ...	66	34	60·0	45·8	52·6	− 1·2	74	− 11	0	0	5	+ 1	1·34	+0·56	3·2	−1·3	25	−10
7. ENGLAND, N.W.	72	35	63·2	48·7	55·6	− 0·1	95	− 1	0	0	4	+ 1	1·14	+0·57	4·7	+0·1	37	+ 1
8. ENGLAND, S.W.	71	36	65·1	50·8	57·6	+ 0·7	109	+ 5	0	0	3	+ 1	0·80	+0·23	5·1	0·0	40	0
9. IRELAND, NORTH ...	69	38	62·0	48·0	54·6	− 0·1	88	− 1	0	0	6	+ 3	1·05	+0·44	3·0	−1·0	23	− 8
10. IRELAND, SOUTH ...	73	40	64·9	49·6	56·9	+ 1·0	104	+ 7	0	0	5	+ 2	0·85	+0·25	4·0	−0·7	32	− 5
11. ENGLISH CHANNEL ...	69	48	65·8	54·6	59·9	+ 0·3	125	+ 2	0	0	3	0	0·84	+0·36	6·6	+0·1	52	+ 1

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 2 Week, August 31st to September 13th, 1913.

0. SCOTLAND, NORTH ...	69	33	*	*	*	*	139	− 14	0	0	7	− 2	1·11	−0·79	3·9	+0·3	30	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	69	28	*	*	*	*	142	− 24	0	− 1	6	− 1	1·01	+0·05	2·7	−1·6	20	−12
2. ENGLAND, N.E.	74	35	*	*	*	*	199	+ 9	0	0	7	+ 1	0·62	−0·44	3·9	−0·9	30	− 7
3. ENGLAND, EAST ...	71	42	*	*	*	*	230	+ 16	0	0	6	+ 1	0·73	−0·14	3·6	−1·7	28	−13
4. MIDLAND COUNTIES ...	72	35	*	*	*	*	212	+ 14	0	0	6	+ 1	1·17	+0·26	3·2	−1·5	25	−12
5. ENGLAND, S.E.	73	40	*	*	*	*	243	+ 13	0	0	7	+ 2	2·23	+1·22	3·8	−1·7	29	−13
Western.																		
6. SCOTLAND, WEST ...	71	34	*	*	*	*	167	− 8	0	0	5	− 2	1·34	−0·38	2·9	−1·7	22	−13
7. ENGLAND, N.W.	72	35	*	*	*	*	205	+ 9	0	0	4	− 2	1·14	−0·13	4·3	−0·3	33	− 3
8. ENGLAND, S.W.	71	36	*	*	*	*	227	+ 15	0	0	7	+ 1	2·44	+1·16	3·3	−1·9	26	−15
9. IRELAND, NORTH ...	69	38	*	*	*	*	186	+ 4	0	0	7	− 1	1·09	−0·30	3·2	−0·8	24	− 6
10. IRELAND, SOUTH ...	73	40	*	*	*	*	215	+ 17	0	0	6	− 1	0·94	−0·37	3·4	−1·3	26	−10
11. ENGLISH CHANNEL ...	74	48	*	*	*	*	266	+ 16	0	0	5	− 1	1·07	+0·03	4·9	−1·6	38	−12

THE YEAR.—Aggregates, &c., for the Period of 37 Weeks, December 29th, 1912, to September 13th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,670	− 37	424	−133	156	−13	29·82	−3·49	3·3	−0·3	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,813	−123	601	− 20	135	− 5	18·39	−2·14	3·8	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	2,129	− 11	406	− 69	125	− 1	14·94	−1·58	3·8	−0·8	29	− 6
3. ENGLAND, EAST ...	84	20	*	*	*	*	2,466	− 8	303	−218	119	− 2	13·74	−2·04	4·2	−0·8	32	− 6
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,390	− 44	392	−141	121	+ 1	18·10	+0·43	3·6	−0·9	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	2,588	− 61	221	−160	116	+ 1	17·46	+0·34	4·4	−0·7	34	− 5
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,024	− 54	323	−102	143	− 4	23·14	−2·43	3·9	−0·5	29	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,216	− 47	298	− 88	137	+ 3	23·45	+0·97	4·2	−0·3	31	− 3
8. ENGLAND, S.W.	83	19	*	*	*	*	2,474	− 30	221	− 80	137	+ 6	26·24	+2·31	4·4	−0·6	33	− 5
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,056	−113	297	− 48	159	− 1	25·28	+0·03	3·7	−0·4	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,403	− 81	243	− 16	158	+16	28·47	+1·98	4·1	−0·4	31	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	2,801	− 35	38	− 71	133	− 6	19·34	−0·38	4·9	−1·1	38	− 9

M.O., September 17, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 149

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 38. THIRTY-EIGHTH WEEK, SUNDAY, SEPTEMBER 14TH, TO SATURDAY, SEPTEMBER 20TH, 1913.

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I.—General Remarks.

Weather. The general condition was very unsettled, with frequent, and in some places very heavy, falls of rain. Thunderstorms were experienced in many places in the eastern half of England, at some stations in the north-west, and at Crieff.

Temperature was below the average except in England North-East and East, the difference amounting, in Ireland South, to nearly two and a half degrees. The highest of the maxima, which were registered mostly between the 17th and 19th, varied from 71° in the Midland Counties and England South-West to 62° in Scotland North. The lowest of the minima occurred about the middle of the period, and were as low as 31° in Scotland West, 32° in England North-West, and 33° in Scotland East. Elsewhere they ranged from 35° in Ireland and some parts of England to 47° in the English Channel. The lowest grass readings were 27° at Harrogate, 28° at Birmingham, West Linton and Armagh, and 29° at Worksop and Greenwich. The temperature of the soil was, as a rule, above the normal both at a depth of 1 foot and 4 feet, but the excess was slight.

Mean Temperature of the Sea. On nearly all parts of the coast the water was warmer than during the corresponding week of last year, the mean values ranging from 60°·9 at the Shipwash Lightship, and 60° or above at Newquay, Plymouth and Eastbourne to 52°·6 at Lerwick, and to 52°·4 at Lamlash. In most localities the temperature was above the normal.

Rainfall was more than the mean except in Scotland North and West and England North-West, where there was a considerable deficiency. Several parts of the Kingdom experienced more than an inch within 24 hours, the largest measurements being 1·4 in. at Killarney on the 14th, 1·2 in. and 1·8 in. at Gordon Castle and Roche's Point on the 15th, 1·2 in. and 2·1 in. at Lincoln and Bawtry on the 17th, and 1·7 in. at Dublin on the 19th.

Bright Sunshine exceeded the average in Ireland and the adjacent English districts, as well as in England North-East, and just equalled it in England East. Elsewhere it was below the normal. In Scotland North the daily mean was only 0·7 hour, and the percentage of the possible only 6, but in the South of Ireland the corresponding values were 5·1 hours and 41, while in the English Channel they were as large as 7 hours and 57.

Barometer and Wind. At the beginning of the week the centre of a depression lay over North Wales, and the cyclonic circulation of the wind was well marked, fresh to strong breezes being reported on various parts of the coast, and a gale at Malin Head. Later the disturbance moved slowly in a westerly direction to the west of Ireland, and then south-eastwards towards the Bay of Biscay, gradually decreasing in intensity, while the wind, after reaching gale force on some parts of the western and northern coasts, quickly subsided. Late in the week another depression arrived over these Islands from the westward and moved eastwards to the North Sea. It caused no great increase in the force of the wind, but was accompanied by considerable quantities of rain.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 151.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate
	Rainfall ...	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Light	Moderate	Heavy	Heavy	Moderate
	Sunshine ...	Very scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 3 weeks from Aug. 31st, 1913.	Warmth ...	0 * 0	0 * 0	0 * 0	1 * 0	1 * 0	1 * 0	0 * 0	1 * 0	1 * 0	0 * 0	1 * 1	1 * 0
	Rainfall ...	0 * 1	1 * 2	1 * 0	2 * 1	2 * 0	2 * 1	1 * 1	1 * 2	1 * 0	2 * 1	2 * 1	1 * 0
	Sunshine ...	1 * 2	0 * 3	1 * 1	1 * 1	0 * 1	1 * 1	0 * 2	1 * 1	0 * 2	0 * 2	0 * 2	0 * 2

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(31824—24.) Wt. 196—786. 450. 9/13. D & S. Gp. 30. Sch. 13.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	*56*	*14th*	*47*	*14, 17*	*52·5*	*48·3*	*50·3*	—	*58*	*0*			51·0				*6*	*0·16*	—	*0·4*	—			*Baltasound.*
a Lerwick	57	14th	46	18th	53·1	48·4	50·6	+ 0·6	60	0							5	0·58	—	0·4	− 3·2	3	−26	Deerness.
a, Islands .. *a* Stornoway	59	20th	38	14th	55·9	46·7	51·1	0·0	64	0							5	0·76	− 0·28	1·3	− 2·4	10	−19	Stornoway.
a Castlebay, Barra Isd.‡..	*59*	*15th*	*44*	*14th*	*57·1*	*49·0*	*52·9*	+ *0·4*	*76*	*0*							*4*	*0·61*	—	*0·6*	—	*5*	—	*Castlebay.*
a Wick	56	15th	37	19th	53·6	45·0	49·1	− 2·2	50	0							3	1·14	+ 0·53					
p Strathpeffer ..																	—	—	—					Strathpeffer.
b, Main- *p* Glencarron ..	59	20th	41	16th	54·7	44·7	49·5	− 0·7	53	0							3	0·76	− 1·23					
land. *p* Fort Augustus..	57	14, 15	38	16th	55·0	46·4	50·5	− 1·5	60	0							4	0·70	− 0·22	0·5	− 2·2	4	−18	Fort Augustus.
p Fort William ..	62	20th	59	16th	58·6	45·1	51·5	− 1·1	67	0							2	0·51	− 1·18					
1. SCOTLAND, E.																							
p Gordon Castle.. S	63	19th	35	19th	57·7	40·0	48·4	− 4·2	53	6	0	35	52·7	−1·2	53·7	−1·0	—	—	—	2·0	—	16	—	Crathes S.
a Nairn	58	14th	38	14th	54·7	43·1	48·6	− 3·3	46	0							4	2·06	+ 1·46	*3·2*	—	*26*	—	*Gordon Castle.*
a Aberdeen ..	60	17th	45	16-18, 20	57·9	46·6	52·0	− 0·4	70	0					53·0	+0·7	4	1·13	+ 0·55	2·2	− 1·8	18	−15	Aberdeen.
a Balmoral ..	60	17th	35	16th	57·0	41·6	48·9	+ 0·1	50	1	0	32					5	1·39	+ 0·73					Balmoral.
p Crieff	61	17th	42	16th	58·1	45·9	51·7	− 1·2	68	0							3	1·26	+ 0·52	0·7	—	6	—	Balruddery.
a Leith	64	14th	40	17th	57·6	45·3	51·2	− 2·8	64	0							4	0·63	+ 0·23					
p West Linton .. S	62	19th	33	18th	58·1	39·6	48·4	− 2·4	55	7	4	28					4	0·44	—	*3·2*	—	*26*	—	*West Linton.*
p Marchmont .. S	62	19th	41	17th	59·1	45·3	51·9	+ 0·3	69	0	0	36	53·3	+0·5			2	0·14	− 0·49	4·0	+ 0·2	33	+ 2	Marchmont.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	62	14th	40	19th	59·4	44·3	51·5	− 0·8	67	0	0	38	52·8	+0·7	53·7	+0·9	3	0·82	+ 0·24	4·4	—	36	—	Cockle Park.
a Shields	63	14th	48	17th	59·1	50·7	54·7	+ 1·1	89	0							4	1·89	+ 1·45					
p Durham	64	19th	41	15th	61·3	46·6	53·6	+ 0·4	81	0	0	36					4	0·35	− 0·12	4·3	+ 0·5	35	+ 4	Durham.
a, North .. *p* Rounton	65	16, 18	40	17th	62·3	45·1	53·3	+ 0·6	79	0	0	35	55·9				4	1·50	+ 1·05					Rounton.
a West Witton	*64*	*16, 19*	*38*	*15th*	*61·3*	*45·7*	*53·1*	—	*78*	*0*	0	35	54·2		53·5		*3*	*0·13*	—					*West Witton.*
p Scarborough	65	19th	47	16th	61·9	51·1	56·2	+ 1·5	99	0					53·5†		3	0·23	− 0·24	4·7	—	38	—	Scarborough.
p York	68	19th	44	17th	64·3	49·7	56·7	+ 2·2	103	0			57·0	+1·3	56·6	+0·9	2	0·71	+ 0·29	3·8	−0·1	31	− 1	York.
											0	37	55·4	+0·8	56·0	+0·6	—	—	—	*3·6*	—	*29*	—	*Hull.*
a Spurn Head	65	17th	48	16th	63·1	51·7	57·1	+ 1·2	106	0							5	0·29	− 0·06	*5·9*	—	*48*	—	*Spurn Head.*
b, South .. *a* Lincoln	69	19th	38	16th	64·9	47·7	55·9	+ 1·0	97	0			57·1	+1·4	57·2	+1·2	4	1·52	+ 1·11					Lincoln.
a Fulbeck	68	19th	35	16th	64·1	47·1	55·2	0·0	92	0	0	33	57·0	0·0	56·9	−0·1	6	0·95	+ 0·52	4·4	—	36	—	Rauceby.
																	—	—	—	6·1	—	50	—	Skegness.
3. ENGLAND, E.											0	40	59·2	+1·3	58·8	+0·5	—	—	—	*6·3*	—	*51*	—	*Lowestoft.*
p Cromer	69	14, 19	44	16th	64·0	51·1	57·2	+ 1·8	106	0							6	0·82	—	4·9	—	40	—	Cromer.
p Little Massingham ..	70	14, 19	41	16th	65·3	48·6	56·6	+ 1·4	102	0	0	38					5	0·61	+ 0·04	4·8	+ 0·3	39	+ 3	Lit. Massingham.
a, North .. *a* Yarmouth	65	14, 19	48	16th	63·6	53·0	58·1	+ 2·0	113	0			59·9	+1·9	59·0	−0·2	5	1·16	+ 0·68	5·9	—	48	—	Yarmouth.
a Norwich	68	16th	40	16th	65·0	48·3	56·3	+ 0·2	100	0	0	37	57·1				6	2·51	—	*5·2*	—	*42*	—	*Norwich.*
a Geldeston	68	14, 19	38	16th	65·4	47·3	55·9	0·0	97	0							7	2·31	+ 1·81	5·3	+ 0·3	43	+ 2	Geldeston.
p Cambridge	69	19th	37	16th	64·4	46·7	55·1	− 0·8	92	0	0	32	57·7	+0·5	58·3	+0·2	4	0·53	+ 0·10	4·7	− 0·1	38	− 1	Cambridge.
a Felixstowe	*65*	*14th*	*47*	*16th*	*63·3*	*53·4*	*58·1*	+ *1·1*	*113*	*0*							*5*	*0·76*	—	*6·8*	—	*55*	—	*Felixstowe.*
a Clacton-on-Sea ..	64	14, 15	49	19th	62·6	53·1	57·6	+ 1·1	109	0	0	41	59·1	+1·2	59·1	+0·5	5	0·41	—	5·2	—	42	—	Clacton.
b, South .. *a* Rothamsted	66	19th	38	16th	63·3	45·7	54·1	− 0·5	85	0							3	0·47	− 0·03	4·6	− 0·1	37	− 1	Rothamsted.
a Shoeburyness	*65*	*14th*	*45*	*16th*	*62·6*	*49·0*	*55·5*	− *2·2*	*95*	*0*	0	44	61·4	+1·5			*6*	*0·44*	*0·00*	*3·8*	—	*31*	—	*Southend.*
p Tottenham	68	14, 19	43	16, 19	64·9	49·1	56·6	+ 0·2	102	0	0	40			60·5	+0·8	2	0·59	—	3·8	—	31	—	Tottenham.
4. MIDLAND COUNTIES.											0	32	55·3	+0·7	55·3	+0·4	—	—	—	*3·0*	—	*24*	—	*Huddersfield.*
a Harrogate	62	18th	37	15th	59·9	47·1	53·2	+ 0·2	78	0	1	27	54·9	+0·6	55·1	+1·5	3	0·31	− 0·27	3·3	—	27	—	Harrogate.
a Bawtry	67	15, 19	37	15th	62·9	45·3	53·7	− 0·7	82	0	1	29	55·6		55·5		4	2·74	+ 2·35	3·6	− 0·2	29	− 2	Worksop.
p Buxton	*63*	*19th*	*37*	*15th*	*58·0*	*44·4*	*50·9*	− *0·4*	*62*	*0*	0	38	55·2	+2·0	54·7	+0·9	*7*	*0·65*	− *0·20*	*3·4*	—	*28*	—	*Buxton.*
a, East .. *a* Nottingham	68	19th	38	16th	63·3	46·0	54·2	− 0·6	85	0	0	34	56·0	+1·1	57·1	+0·7	5	0·83	+ 0·37	4·8	—	39	—	Nottingham.
p Birmingham, Edgbsn.	64	19th	42	16th	61·0	48·1	54·2	− 0·3	85	0	1	28	52·9	−0·2	53·2	+0·1	6	0·57	+ 0·10	2·9	—	24	—	Birmingham.
a Raunds	71	19th	35	16th	65·7	46·7	55·7	+ 0·9	96	0	1	30	57·1		57·1		3	0·14	—					Raunds.
p Oxford	67	19th	40	16th	63·0	48·3	55·3	0·0	93	0	0	35					5	0·46	+ 0·03	4·6	− 0·1	37	− 1	Oxford.
											0	33	54·9	+0·3	54·8	−1·9	—	—	—	3·0	—	24	—	Sheffield.
a Cheadle	64	18th	39	16th	60·1	46·9	53·2	0·0	78	0	0	36					5	1·00	+ 0·38					Cheadle.
p Shrewsbury	67	19th	39	16, 17	63·3	45·0	53·7	− 1·4	82	0	0	34					4	0·19	—					Shrewsbury.
b, West .. *a* Hereford	67	18th	37	16th	61·3	46·0	53·3	− 1·6	79	0	0	32					4	0·22	− 0·23					Hereford.
a Cirencester	65	18th	42	15th	61·3	46·1	53·3	− 1·1	79	0	0	40	56·1		56·9		3	0·37	− 0·18	4·1	− 0·4	33	− 3	Cirencester.
a Bath	67	18, 19	43	17th	63·6	46·1	54·4	− 1·9	87	0	*	*	59·1	+0·4	59·7	0·0	4	0·43	− 0·13	5·2	—	42	—	Bath.
5. ENGLAND, S.E.											0	34	59·2	+1·9	59·3	+0·7	—	—	—	*	*	*	*	Canterbury.
p Kew	66	19th	45	18, 19	62·7	47·7	54·8	− 0·9	90	0	0	36	56·7	0·0	57·4	+0·3	4	0·74	+ 0·25	3·5	− 1·0	29	− 8	Kew.
a Marlborough	65	18th	38	16th	61·1	43·7	52·0	− 1·5	70	0	0	34			56·8		4	0·76	+ 0·23	4·2	+ 0·1	34	0	Marlborough.
a Margate	65	19th	48	19th	62·6	51·4	56·7	− 0·8	103	0	0	39	55·7	−1·6	56·9	−0·8	6	2·18	+ 1·71	4·4	− 0·4	36	− 4	Margate.
a Wisley, Surrey ..	68	19th	40	16th	63·3	46·1	54·3	− 2·0	86	0	0	33	57·1	0·0	57·7	−0·5	4	0·58	—	4·8	—	39	—	Wisley.
											0	43	59·9	+1·6	60·0	+0·9	—	—	—	5·6	—	46	—	Worthing.
p Salisbury (Wilton) ..	67	19th	40	15, 17	63·4	44·3	53·4	− 2·0	80	0	0	36	58·9				5	0·79	+ 0·26	*	*	*	*	Salisbury.
a Tunbridge Wells ..											*	*					—	—	—					Tunbridge Wells.
a Dungeness	65	19th	46	18th	62·4	50·0	55·9	− 1·8	97	0	*	*					5	1·12	+ 0·60	3·9	—	32	*	Littlestone.
p Hastings..	64	14, 19	49	15, 17	62·0	51·6	56·6	− 0·8	102	0	0	44	59·4		59·8		5	0·36	− 0·29	*4·6*	− *0·8*	*37*	− 7	*Hastings.*
p Southampton	67	19th	46	15th	63·1	49·3	55·9	− 1·4	97	0	0	40					4	0·49	− 0·06	5·3	+ 0·2	43	+ 1	Southampton.
a Ventnor	65	19, 20	49	17th	62·9	53·4	57·9	− 0·9	111	0	*	*					4	0·33	− 0·29	7·2	+ 1·7	59	+14	Ventnor.
											0	38	58·9	+0·2	59·9	+0·2	—	—	—	*6·8*	—	*55*	—	*Portsmouth.*
											*	*	60·0	*	60·1	*	—	—	—	5·1	− 0·3	42	− 3	Eastbourne.
											*	*	58·1		59·4		—	—	—	*5·2*	—	*42*	—	*Bournemouth.*
LONDON,											0	43			60·6		—	—	—	*5·5*	+ *0·2*	*45*	+ *1*	*Brighton.*
a Westminster	*68*	*19th*	*46*	*19th*	*63·9*	*50·6*	*56·9*	+ *0·4*	*104*	*0*	0	42					*4*	*0·96*	+ *0·50*	*3·8*	+ *0·1*	*31*	+ *1*	*Westminster.*
a Greenwich	*71*	*19th*	*42*	*19th*	*65·7*	*47·6*	*56·2*	− *0·7*	*99*	*0*	1	29					*4*	*0·59*	+ *0·14*	*4·8*	− *0·2*	*39*	− *2*	*Greenwich.*
a Hampstead	*66*	*19th*	*46*	*16th*	*62·1*	*50·0*	*55·8*	+ *0·1*	*97*	*0*	0	31					*4*	*0·73*	—	*3·9*	—	*32*	—	*Hampstead.*
a Camden Square ..	*70*	*19th*	*43*	*16th*	*65·4*	*47·4*	*56·0*	+ *2·5*	*98*	*0*	0	41					*4*	*0·76*	—	*2·7*	—	*22*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																							
a Poltalloch .. S	63	17th	38	18th	58·6	45·3	51·6	− 1·7	67	0	*	*	*	*	*	*	2	0·47	− 0·67	*	*	*	*	
p Glasgow	61	14th	42	17th	57·3	46·0	51·4	− 1·0	66	0	0	34	*	*	*	*	3	0·46	− 0·31	1·2	− 2·0	10	−17	Glasgow.
p Rothesay ..	61	17th	42	17th	57·7	45·6	51·4	− 1·8	66	0	0	37	53·1	*	54·2	+0·7	3	0·56	− 0·44	*	*	*	*	
a Kilmarnock ..	65	15th	31	17th	61·4	40·9	50·7	− 1·9	66	3	*	*	*	*	*	*	2	0·08	—	*3·7*	—	*30*	—	*Kilmarnock.*
a Colmonell ..	66	18th	33	17th	61·6	42·0	51·3	− 2·4	65	0	1	30	*	*	*	*	2	0·78	− 0·18	*	*	*	*	
p Dumfries ..	64	15th	40	17, 18	62·0	46·1	53·1	− 0·5	78	0	0	36	53·9	*	56·7	*	1	0·03	− 0·68	*4·9*	—	*40*	—	*Dumfries.*
p Cally, Gatehouse	64	15, 17, 18	39	19th	62·3	42·7	52·0	− 0·4	70	0	*	*					1	0·33	− 0·59					
b I. OF MAN																							
p Douglas	62	17th	46	18th	60·3	49·9	54·9	+ 1·4	90	0	0	41	*	*	*	*	3	0·43	− 0·47	5·6	+ 0·9	46	+ 7	Douglas.
											0	34	54·4	+1·6	54·8	+1·0	—	—	—	*4·2*	—	*34*	—	*Burnley.*
											0	34	*	*	*	*	—	—	—	4·3	—	35	—	Hoylake.
7. *a*, ENGLAND, N.W.																							
p Aspatria	65	19th	32	18th	62·3	41·9	51·6	− 1·0	68	0	0	32	53·6	*	54·5	*	2	0·03	− 0·85	5·3	—	43	—	Aspatria.
p Newton Rigg	66	18th	34	17th	63·1	41·0	51·5	− 0·1	71	3	0	32	53·9	−1·1	55·1	+0·7	1	0·05	− 0·64	6·1	+ 2·1	50	+17	Newton Rigg.
p Stonyhurst	66	19th	45	17th	61·1	48·4	54·5	+ 1·0	88	0	0	38	*	*	*	*	3	0·05	− 0·93	3·7	− 0·4	30	− 3	Stonyhurst.
p Blackpool	66	19th	41	17th	62·7	47·4	54·7	− 0·1	89	0	0	32	55·6	*	55·6	*	4	0·22	− 0·51	4·1	0·0	33	0	Blackpool.
p Manchester (Whit. Pk.)	67	19th	43	16th	62·6	49·6	55·8	+ 1·4	97	0	*	*	*	*	*	*	4	0·53	− 0·10	*3·2*	− *0·2*	*26*	− *1*	*Whit. Park.*
a Liverpool (Bidston) ..	65	18, 19	45	16, 17	61·4	48·4	54·6	− 0·2	88	0	*	*	*	*	*	*	5	0·35	− 0·27	*4·2*	—	*34*	—	*Liverpool.*
a Hawarden Bridge ..	68	19th	39	16th	61·4	47·3	54·0	− 1·7	84	0	0	33	55·1	−1·4	57·9	+0·2	5	0·26	− 0·19	*3·3*	− *0·9*	*27*	− *8*	*Southport.*
											0	38	56·7	+1·2	60·3	+2·6	—	—	—	*2·7*	—	*22*	—	*Manchester (City)*
b, NORTH WALES.																							
p Llandudno	67	19th	43	16th	63·1	49·1	55·8	− 0·3	97	0	*	*	*	*	*	*	5	0·17	− 0·40	5·6	+ 1·4	46	+11	Llandudno.
a Holyhead	66	18th	47	16th	61·9	50·3	56·8	+ 0·2	97	0	*	*	*	*	*	*	4	0·44	− 0·22	*5·6*	—	*46*	—	*Holyhead.*
p Bettws-y-Coed ..	62	16th	40	17th	60·7	47·0	53·5	− 1·5	81	0	0	37	54·0	+0·9	54·7	+0·9	1	0·05	—	3·7	—	30	—	Bettws-y-Coed.
											*	*	*	*	*	*	—	—	—	5·1	—	42	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.
‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				4·7	—	38	—	Aberystwyth.
a Llangammarch Wells	63	18th	36	16th	59·7	43·9	51·4	− 1·5	66	0	0	33	54·5	−0·1	55·5	+0·7	4	0·42	—	3·2	—	26	—	Llangammarch
a Pembroke	65	17th	47	14th	59·9	50·0	54·7	− 1·3	89	0	•	•	•	•	•	•	5	1·10	+ 0·40	5·1	+ 0·3	42	+ 2	Pembroke.[Wells
p Cardiff	65	18th	45	16th	61·1	48·4	54·5	− 0·7	88	0	0	42	56·4	+0·7	58·0	+0·8	3	0·40	− 0·43	*3·9*	—	*32*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	71	20th	46	16th	64·1	49·1	56·2	− 0·2	99	0	0	42	•	•	•	•	5	0·36	− 0·27	*4·9*	—	*40*	—	*Clifton.*
a Shaftesbury	64	19th	45	17th	60·1	46·6	53·0	− 2·0	77	0	•	•	56·6	•	58·3	•	4	0·88	+ 0·24	•	•	•	•	Shaftesbury.
a Arlington	62	17th	42	16th	60·0	44·7	52·0	− 2·3	70	0	•	•	•	•	•	•	4	0·79	− 0·31	•	•	•	•	Arlington.
a Newquay	*61*	*18, 19*	*47*	*15, 17, 19*	*59·6*	*49·9*	*54·5*	− *2·4*	*88*	*0*	•	•	57·9	•	•	•	*5*	*1·17*	+ *0·47*	5·7	+ 0·7	46	[+ 6	Newquay.
a Cullompton	65	18–20	40	15th	62·7	44·0	52·9	− 2·0	76	0	0	38	57·4	•	•	•	5	0·79	+ 0·19	3·7	− 0·8	30	½ − 7	Cullompton.
a Portland	65	18th	50	18th	61·4	52·4	56·7	− 1·1	103	0	•	•	•	•	•	•	4	0·93	—	*5·4*	—	*44*	—	*Weymouth.*
p Plymouth	64	18th	49	19th	61·9	50·6	56·0	− 0·8	98	0	0	41	58·2	0·0	•	•	4	0·84	+ 0·20	5·2	+ 0·2	42	+ 2	Plymouth.
a Falmouth	65	18th	46	14th	61·3	48·6	54·7	− 2·0	89	0	•	•	•	•	•	•	5	0·45	− 0·35	6·7	+ 1·6	55	+13	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	60	17th	47	14th	57·7	48·4	52·8	− 1·2	76	0	•	•	•	•	•	•	4	1·54	+ 0·84	•	•	•	•	• •
a Blacksod Point ..	62	20th	46	14th	58·7	49·3	53·8	− 0·3	83	0	•	•	•	•	•	•	7	1·52	+ 0·54	•	•	•	•	• •
p Markree Castle ..	65	17th	38	18th	60·3	44·3	51·9	− 0·2	69	0	0	34	56·4	•	56·3	•	4	1·17	+ 0·32	4·1	+ 0·5	33	+ 4	Markree Castle.
a Birr Castle	66	18th	35	19th	60·7	40·4	50·1	− 3·4	63	4	•	•	•	•	•	•	5	1·16	+ 0·61	*5·6*	+ *1·4*	*46*	*+12*	*Birr Castle.*
b, East .. *p* Armagh	64	18th	37	17th	60·3	44·9	52·2	− 0·9	71	0	1	28	54·7	−1·5	56·2	+0·2	5	1·46	+ 0·85	3·8	0·0	31	0	Armagh.
a Donaghadee	61	18th	47	17th	57·7	49·9	53·6	− 0·7	81	0	•	•	•	•	•	•	5	1·07	+ 0·45	•	•	•	•	• •
											0	37	55·8	−0·6	57·4	+1·0	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	31	•	•	•	•	—	—	—	4·2	− 0·4	34	− 4	Phœnix Park.
a, East .. *p* Dublin, City	61	16th	42	17, 18	57·9	45·6	51·5	− 3·8	67	0	0	39	•	•	•	•	4	1·81	+ 1·31	•	•	•	•	Dublin City.
a Kilkenny	66	18th	38	18th	60·7	43·7	51·8	− 2·4	69	0	•	•	•	•	•	•	5	0·64	+ 0·07	•	•	•	•	• •
a Waterford	66	18th	44	17th	61·7	45·9	53·4	− 1·2	80	0	•	•	•	•	•	•	3	0·63	− 0·05	•	•	•	•	• •
a Carrick-on-Suir ..	*65*	*18th*	*42*	*17th*	*58·9*	*44·9*	*51·6*	—	*67*	*0*	0	39	•	•	•	•	*5*	*1·09*	—	*5·7*	—	*46*	—	*Carrick-on-Suir.*
b, West .. *a* Birr Castle	66	18th	35	19th	60·7	40·4	50·1	− 3·4	63	4	•	•	•	•	•	•	5	1·16	+ 0·61	5·6	+ 1·4	46	+12	Birr Castle.
a Foynes	62	18th	42	16th	58·6	46·0	52·0	− 2·7	70	0	•	•	•	•	•	•	6	0·66	− 0·04	•	•	•	•	• •
a Cahir	66	18th	36	18th	60·6	42·9	51·3	− 3·3	65	0	•	•	•	•	•	•	5	1·65	—	•	•	•	•	• •
a Killarney	68	17th	38	18th	62·8	45·5	53·7	− 0·9	82	0	•	•	•	•	•	•	5	2·82	+ 1·90	•	•	•	•	• •
a Valencia	63	16, 18	42	18th	60·0	48·6	54·0	− 1·8	84	0	•	•	•	•	•	•	6	1·45	+ 0·45	4·9	+ 0·6	40	+ 5	Valencia.
a Roche's Point	63	17, 20	47	18th	60·3	48·9	54·3	− 1·6	86	0	•	•	•	•	•	•	7	2·55	+ 1·81	5·6	—	46	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	64	18th	48	14th	61·3	51·7	56·3	− 1·9	100	0	•	•	•	•	•	•	4	0·50	− 0·14	7·3	+ 1·8	59	+15	Scilly.
a Jersey, St. Aubins ..	67	19th	47	15th	64·1	51·4	57·5	− 2·3	109	0	•	•	•	•	•	•	4	0·55	− 0·11	6·7	+ 0·8	55	+ 7	St. Heliers.
a Guernsey (Villa Carey)	67	19th	49	15, 16	64·0	51·6	57·5	− 1·7	109	0	0	42	60·3	+0·1	61·5	+0·6	6	0·82	+ 0·08	6·9	+ 1·3	56	+10	Guernsey.*

Additional Sunshine Means:—*Bognor, 6·9 hrs. 56 °/₀; Ramsgate, 4·6 hrs. 37 °/₀; Rhyl, 4·4 hrs. 36 °/₀; Salcombe, 5·8 hrs. 47 °/₀; Tenby, 4·8 hrs. (−0·1) 39 °/₀ (−1); Torquay, 5·3 hrs. (+0·1) 43 °/₀ (+1).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, September 20th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°	
SCOTLAND, N. ..	Lerwick	53	52	52·6	+1·1
	Kirkwall	54	52	53·5	+1·0
	Wick	54	52	53·1	+1·0
SCOTLAND, E. ..	Cromarty	55	53	53·5	−0·5
	Pennan Bay	55	54	54·7	+1·2
	Aberdeen, Cove Bay	55	54	54·1	+1·1
ENGLAND, N.E. ..	Burnmouth, Berwick	53	52	52·9	+0·3
	Scarborough	55	53	54·0	−0·1
ENGLAND, E. ..	Shipwash Lightship	62	60	60·9	+0·7
ENGLAND, S.E. ..	Eastbourne‡	62	60	60·9	+0·6
SCOTLAND, W. ..	Lamlash	56	49	52·4	−2·4
	Ballantrae	57	52	54·7	+0·5
ENGLAND, N.W. ..	Port Erin	57	55	56·2	+0·3
	Newquay	61	59	60·0	+0·2
ENGLAND, S.W. ..	Scilly	59	58	58·5	—
	Plymouth‡	61	60	60·2	+1·4
	Salcombe	60	59	59·4	+0·5
IRELAND, N.W. ..	Sheephaven	57	55	56·5	−0·5
	Teelin	59	52	56·1	−1·2
IRELAND, S.W. ..	Cleggan	58	55	57·2	+1·8
	Seafield	60	55	57·3	−0·9

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-EIGHTH WEEK—September 14th to September 20th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	62	37	55·2	46·1	50·4	− 0·8	59	− 6	0	− 1	4	− 1	0·74	−0·32	0·7	−2·5	6	−20
Eastern.																		
1. SCOTLAND, EAST ...	64	33	57·5	43·4	50·1	− 1·6	57	− 12	0	− 1	4	+ 1	1·05	+0·51	2·0	−1·8	16	−15
2. ENGLAND, N.E.	69	35	62·3	48·2	54·9	+ 1·0	90	+ 7	0	0	4	+ 1	0·92	+0·57	4·6	+0·3	38	+ 2
3. ENGLAND, EAST ...	70	37	64·3	49·2	56·4	+ 0·8	101	+ 5	0	0	5	+ 2	1·05	+0·63	4·9	0·0	40	0
4. MIDLAND COUNTIES ...	71	35	62·3	46·5	54·0	− 0·4	84	− 3	0	− 1	4	+ 1	0·66	+0·22	3·9	−0·4	32	− 3
5. ENGLAND, S.E.	68	38	62·6	48·6	55·3	− 1·5	93	− 10	0	0	5	+ 2	0·81	+0·34	4·9	−0·1	40	− 1
Western.																		
6. SCOTLAND, WEST ...	66	31	60·2	44·7	52·1	− 0·7	71	− 5	0	0	2	− 1	0·39	−0·54	3·4	−0·7	28	− 6
7. ENGLAND, N.W.	68	32	62·0	47·0	54·1	− 0·5	85	− 3	0	0	3	− 1	0·22	−0·44	4·7	+0·6	39	+ 5
8. ENGLAND, S.W.	71	36	61·2	47·8	54·2	− 1·7	85	− 12	0	0	4	0	0·70	+0·01	4·9	+0·2	40	+ 2
9. IRELAND, NORTH ...	66	35	59·2	46·2	52·4	− 1·2	73	− 9	0	0	5	+ 1	1·32	+0·63	4·0	+0·3	32	+ 2
10. IRELAND, SOUTH ...	68	35	60·4	45·3	52·5	− 2·4	74	− 16	0	0	5	+ 2	1·49	+0·85	5·1	+0·7	41	+ 6
11. ENGLISH CHANNEL ...	67	47	63·1	51·6	57·1	− 1·7	106	− 12	0	0	5	+ 1	0·62	+0·04	7·0	+0·9	57	+ 8

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 3 Weeks, August 31st to September 20th, 1913.

0. SCOTLAND, NORTH ...	69	33	*	*	*	*	198	− 20	0	− 1	11	− 3	1·85	−1·11	2·9	−0·6	22	− 5
Eastern.																		
1. SCOTLAND, EAST ...	69	28	*	*	*	*	199	− 36	0	− 2	10	0	2·06	+0·56	2·4	−1·8	19	−13
2. ENGLAND, N.E.	74	35	*	*	*	*	289	+ 16	0	0	11	+ 2	1·54	+0·13	4·1	−0·5	32	− 4
3. ENGLAND, EAST ...	71	37	*	*	*	*	331	+ 21	0	0	11	+ 3	1·83	+0·54	4·1	−1·1	32	− 9
4. MIDLAND COUNTIES ...	72	35	*	*	*	*	296	+ 11	0	− 1	10	+ 2	1·83	+0·48	3·4	−1·2	27	− 9
5. ENGLAND, S.E.	73	38	*	*	*	*	336	+ 3	0	0	12	+ 4	3·04	+1·56	4·2	−1·1	33	− 9
Western.																		
6. SCOTLAND, WEST ...	71	31	*	*	*	*	238	− 13	0	0	7	− 3	1·73	−0·92	3·1	−1·3	24	−10
7. ENGLAND, N.W.	72	32	*	*	*	*	290	+ 6	0	0	7	− 3	1·36	−0·57	4·4	−0·1	34	− 1
8. ENGLAND, S.W.	71	36	*	*	*	*	312	+ 3	0	0	11	+ 1	3·14	+1·17	3·9	−1·1	30	− 9
9. IRELAND, NORTH ...	69	35	*	*	*	*	259	− 5	0	0	12	0	2·41	+0·33	3·4	−0·5	27	− 4
10. IRELAND, SOUTH ...	73	35	*	*	*	*	289	+ 1	0	0	11	+ 1	2·43	+0·48	4·0	−0·6	31	− 5
11. ENGLISH CHANNEL ...	74	47	*	*	*	*	372	+ 4	0	0	10	0	1·69	+0·07	5·6	−0·7	44	− 6

THE YEAR.—Aggregates, &c., for the Period of 38 Weeks, December 29th, 1912, to September 20th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,729	− 43	424	−134	160	−14	30·56	−3·81	3·2	−0·4	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,870	−135	601	− 21	139	− 4	19·44	−1·63	3·7	−0·6	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	2,219	− 4	406	− 69	129	0	15·86	−1·01	3·9	−0·7	29	− 6
3. ENGLAND, EAST ...	84	20	*	*	*	*	2,567	− 3	303	−218	124	0	14·84	−1·36	4·3	−0·7	32	− 6
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,474	− 47	392	−142	125	+ 2	18·76	+0·65	3·6	−0·9	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	2,681	− 71	221	−160	121	+ 3	18·27	+0·68	4·4	−0·7	34	− 5
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,095	− 59	323	−102	145	− 5	23·53	−2·97	3·9	−0·5	29	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,301	− 50	298	− 88	140	+ 2	23·67	+0·53	4·2	−0·3	32	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	2,559	− 42	221	− 80	141	+ 6	26·94	+2·32	4·4	−0·6	34	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,129	−122	297	− 48	164	0	26·60	+0·66	3·7	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,477	− 97	243	− 16	163	+18	29·96	+2·83	4·1	−0·4	31	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	2,907	− 47	38	− 71	138	− 5	19·96	−0·34	5·0	−1·0	38	− 8

M.O., September 24, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 9, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* } No. 39. THIRTY-NINTH WEEK, SUNDAY, SEPTEMBER 21ST, TO SATURDAY, SEPTEMBER 27TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10*s.* 0*d.*

I.—General Remarks.

Weather. Over the greater part of England the weather was fair. but in Ireland, Scotland and the northern districts of England rain was experienced on several days. A thunderstorm occurred at Little Massingham on the 22nd, thunder at Morpeth on the 26th, and thunderstorms at Lerwick and Valencia on the 27th. Mist was rather prevalent from time to time both on the coast and inland.

Temperature was above the average, the difference exceeding 6° in England N.E., E. and N.W., and amounting to more than 7° in the Midland Counties. The highest of the maxima were recorded at most stations, either on the 26th or 27th, and ranged from 79° in England N.E., the Midland Counties and England N.W. to 68° in Ireland N. The lowest of the minima, which occurred generally on the 21st or 22nd, varied from 36° in Scotland W. and 38° in Scotland N. and the Midland Counties to 44° in Ireland and the north-east and east of England and to 50° in the English Channel. During the greater part of the week the minima were very high for the time of the year. The lowest grass readings were 32° at West Linton and 35° at Greenwich and Hampstead. The temperature of the soil was above the average at all stations at a depth of 1 foot and, with very few exceptions, at a depth of 4 feet also.

Mean Temperature of the Sea was, as a rule, much higher than in the corresponding week of last year—as much as 6° at Eastbourne—and was generally above the average. The figures ranged from 62° at the Shipwash Lightship, 60°·7 at Eastbourne and about 60° at Plymouth and Salcombe to about 53° at Lamlash and Lerwick, and to 52° at Burnmouth.

Rainfall exceeded the normal in Ireland and in England N.W. and N.E., but was less elsewhere. Some heavy falls in 24 hours were experienced in various northern and western districts. On the 22nd, 0·9 in. at Dublin, 1·1 in. at Roche's Point and Carrick-on-Suir, and 1·4 in. at Valencia; on the 26th, 0·9 in. at Southport, 1·3 in. at North Shields and 1·6 in. at Lancaster; and on the 27th 1·1 in. at Blacksod.

Bright Sunshine was above the average in England E. and S.E., but below it in all other districts. In England S.E. and the English Channel the daily mean was 5 hours and the percentage of the possible 42, but in Ireland S. and Scotland W. the daily mean was only about 1·5 hour, and the percentage of the possible no more than 12.

Barometer and Wind. Early in the week a high pressure system covered the Bay of Biscay region, and the gradient over these Islands was very slight, but as a large depression advanced from the westward this anticyclone moved away to the eastward and pressure became highest over Northern Europe. The Atlantic disturbance was large and rather deep, and extending over the United Kingdom, it caused fresh to strong winds from the Southward over a large area, and a gale at times on the extreme western and northern coasts. Towards the end of the week the gradient decreased, and the wind, which continued Southerly, fell to a light or moderate breeze.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 155.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Light	Moderate	Heavy	Light	Moderate	Light	Moderate	Heavy	Light	Moderate	Very heavy	Light
	Sunshine ...	Moderate	Scanty	Scanty	Moderate	Moderate	Moderate	Very scanty	Scanty	Very scanty	Scanty	Very scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 4 weeks from Aug. 31st, 1913.	Warmth ...	1 * 0	1 * 0	1 * 0	2 * 0	2 * 0	2 * 0	1 * 0	2 * 0	2 * 0	1 * 0	2 * 1	2 * 0
	Rainfall ...	0 * 2	2 * 1	2 * 0	2 * 2	2 * 0	2 * 2	1 * 1	2 * 2	1 * 1	2 * 1	3 * 1	1 * 1
	Sunshine ...	1 * 2	0 * 4	1 * 2	1 * 1	0 * 1	1 * 1	0 * 3	1 * 2	0 * 3	0 * 3	0 * 3	0 * 2

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(31900—24.) Wt. 196—786. 450. 10/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall,	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*59*	*27th*	*44*	*21st*	*56·1*	*48·7*	*52·2*	—	*71*	*0*					51·5		*6*	*0·62*		*2·5*	—	*21*	—	*Baltasound.*
a Islands .. *a Lerwick*	59	26th	44	22nd	56·1	49·6	52·7	+ 3·7	75	0							5	0·74	—	2·8	− 0·6	24	− 5	Deerness.
a Stornoway	64	27th	38	22nd	59·7	46·7	52·9	+ 3·3	76	0							5	0·89	− 0·23	2·9	− 0·6	24	− 5	Stornoway.
a Castlebay, Barra Isd.‡ ..	*60*	*24th*	*47*	*22nd*	*57·4*	*51·1*	*54·1*	+ *2·9*	*85*	*0*							*6*	*0·74*	—	*2·6*	—	*22*	—	*Castlebay.*
a Wick	58	26, 27	43	22nd	56·1	48·6	52·2	+ 2·0	71	0							4	0·48	− 0·14					
p Strathpeffer	67	24th	44	27th	62·6	47·7	54·8	+ 4·9	90	0							4	0·33	− 0·27	1·9	− 1·7	16	−15	Strathpeffer.
b, Main- *p* Glencarron ..	68	24, 27	42	22nd	62·6	49·4	55·7	+ 6·9	96	0							5	0·57	− 1·46					
land. *p* Fort Augustus..	68	24th	45	22, 27	63·6	51·0	57·0	+ 6·3	105	0							4	0·44	− 0·49	2·2	− 0·3	19	− 3	Fort Augustus.
p Fort William ..	71	24th	44	22nd	63·4	52·0	57·4	+ 5·9	108	0							6	0·50	− 1·25					
1. SCOTLAND, E.																								
p Gordon Castle.. S	71	27th	43	21st	63·7	48·3	55·6	+ 4·2	95	0	0	38	54·5	+1·2	53·2	−0·5	—	—	—	2·3	—	19	—	Crathes S.
a Nairn	70	25th	43	21st	64·1	47·7	55·5	+ 5·1	95	0							3	0·07	− 0·58	*3·6*	—	*30*	—	*Gordon Castle*
a Aberdeen ..	65	26th	47	21, 22	59·9	51·7	55·6	+ 4·4	95	0					52·4	+0·5	4	0·35	− 0·16	2·8	—	24	—	Nairn.
a Balmoral ..	67	26th	44	21st	61·6	46·9	53·9	+ 6·3	83	0	0	40					5	0·25	− 0·35	2·4	− 1·4	20	−12	Aberdeen.
p Crieff	67	21, 26	42	24th	61·6	49·9	55·5	+ 4·0	95	0							4	0·54	− 0·16					Balmoral.
a Leith	74	24th	49	21st	64·1	52·4	58·0	+ 5·4	112	0							6	1·39	+ 0·61	0·5	—	4	—	Balruddery.
p West Linton ..	69	24th	40	22nd	62·7	50·0	56·1	+ 6·7	99	0	0	32					4	0·63	+ 0·22					
p Marchmont ..	64	21, 25	45	22nd	60·1	49·9	54·8	+ 4·2	90	0	0	40	54·7	+2·4			4	0·51	—	*2·2*	—	*19*	—	*West Linton.*
																	4	0·77	+ 0·11	2·4	− 1·1	20	−10	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	66	26th	45	22nd	61·3	51·1	56·0	+ 4·9	98	0	0	42	54·7	+2·6	53·5	+1·2	4	1·02	+ 0·38	2·0	—	17	—	Cockle Park.
a Shields	70	24th	51	22, 23	61·7	53·4	57·4	+ 5·2	108	0							4	1·81	+ 1·32					
p Durham	71	27th	49	22nd	64·9	52·9	58·6	+ 6·9	116	0	0	46					4	1·47	+ 0·95	2·1	− 1·5	18	−13	Durham.
a, North .. *p* Rounton	75	27th	44	22nd	65·1	53·4	59·0	+ 7·7	119	0	0	41	56·4				5	0·62	+ 0·13					Rounton.
a West Witton ..	*68*	*24, 27*	*45*	*22nd*	*64·1*	*51·1*	*57·3*	—	*107*	*0*	0	42	55·2		53·0		*5*	*0·91*	—					*West Witton.*
p Scarborough ..	72	27th	50	22nd	63·4	53·7	58·3	+ 5·0	114	0					58·0†		5	0·40	− 0·12	2·8	—	24	—	Scarborough.
p York	79	27th	48	22nd	67·7	52·6	59·8	+ 6·9	125	0			57·0	+1·7	56·2	+0·8	4	0·33	− 0·14	3·2	−0·4	27	− 4	York.
											0	44	56·1	+2·4	55·6	+0·9	—	—	—	*2·9*	—	*24*	—	*Hull.*
a Spurn Head	64	26th	51	22nd	62·6	52·3	57·2	+ 2·8	106	0							2	0·10	− 0·29	*3·2*	—	*27*	—	*Spurn Head.*
b, South .. *a* Lincoln	77	27th	47	22nd	67·9	53·0	60·1	+ 6·9	127	0			57·0	+1·7	56·9	+1·4	3	0·20	− 0·23					Lincoln.
a Fulbeck	76	27th	44	22nd	67·4	52·0	59·3	+ 6·0	121	0	0	37	58·0	+2·0	56·5	+0·2	3	0·26	− 0·20	3·7	—	31	—	Rauceby.
																				4·6	—	39	—	Skegness.
											0	48	59·3	+2·1	58·6	+0·8	—	—	—	*5·4*	—	*45*	—	*Lowestoft.*
3. ENGLAND, E.																				4·9	—	41	—	Cromer.
p Cromer	76	26th	51	22nd	67·7	54·1	60·6	+ 6·6	130	0							2	0·07						
p Little Massingham ..	75	26, 27	49	21, 22	67·6	51·9	59·4	+ 5·8	122	0	0	42					2	0·21	− 0·39	4·1	− 0·1	34	− 1	Lit. Massingham.
a, North .. *a* Yarmouth ..	67	26th	48	22nd	64·1	53·4	58·5	+ 4·0	116	0			59·7	+0·5	59·0	+0·9	0	0·00	− 0·52	4·9	—	41	—	Yarmouth.
a Norwich	73	26th	47	22nd	67·4	52·6	59·6	+ 4·7	123	0	0	45	57·7				2	0·14	—	*4·4*	—	*37*	—	*Norwich.*
p Geldeston	73	26th	47	22nd	66·7	53·1	59·6	+ 5·6	123	0							4	0·13	− 0·40	4·7	0·0	40	0	Geldeston.
p Cambridge	76	26th	44	22nd	69·1	52·4	60·4	+ 6·5	129	0	0	38	58·2	+1·5	57·9	+0·3	2	0·15	− 0·31	4·5	0·0	38	0	Cambridge.
a Felixstowe ..	67	*26th*	*50*	*22nd*	*64·6*	*55·7*	*59·9*	+ *4·6*	*125*	*0*							*2*	*0·07*	—	*5·5*	—	*46*	—	*Felixstowe.*
a Clacton-on-Sea ..	66	26th	50	22nd	63·7	55·1	59·2	+ 5·2	120	0	0	45	59·0	+1·6	58·9	+0·8	1	0·02	—	4·8	—	40	—	Clacton.
b, South .. *a* Rothamsted ..	75	27th	44	22nd	68·9	51·0	59·5	+ 6·7	123	0							3	0·21	− 0·34	4·6	+ 0·2	39	+ 2	Rothamsted.
a Shoeburyness ..	*72*	*26th*	*50*	*22nd*	*66·7*	*54·3*	*60·2*	+ *4·2*	*127*	*0*	0	46	60·6	+1·3			*2*	*0·08*	—	*4·9*	—	*41*	—	*Southend.*
p Tottenham	76	27th	47	22nd	69·4	53·1	60·9	+ 6·0	132	0	0	43			59·5	+0·4	1	0·14	—	4·4	—	37	—	Tottenham.
4. MIDLAND COUNTIES.																				*2·7*	—	*23*	—	*Huddersfield.*
a Harrogate	74	27th	46	22nd	64·7	51·3	57·7	+ 6·1	110	0	0	41	55·6	+1·6	55·0	+0·7	—	—	—	2·6	—	22	—	Harrogate.
a Bawtry	79	27th	38	22nd	68·9	51·7	59·9	+ 7·1	125	0	0	43	55·4	+1·7	54·9	+1·7	4	0·54	− 0·07	2·8	− 0·7	24	− 6	Worksop.
p Buxton	*73*	*27th*	*47*	*22nd*	*63·9*	*50·6*	*56·5*	+ *6·8*	*102*	*0*	0	37	56·4		55·2		4	0·31	− 0·10	*3·1*	—	*26*	—	*Buxton.*
a, East .. *a* Nottingham	78	27th	48	22nd	68·1	51·9	59·6	+ 6·5	123	0	0	44	55·7	+2·6	54·3	+0·9	*4*	*0·50*	− *0·40*					
p Birmingham, Edgbsn.	77	27th	50	22nd	66·1	54·3	59·9	+ 7·1	125	0	0	42	57·9	+3·3	57·1	+1·4	4	0·40	− 0·08	3·6	—	30	—	Nottingham.
a Raunds	79	27th	44	22nd	70·9	51·4	60·7	+ 7·6	131	0	0	40	54·7	+1·6	53·0	+0·2	4	0·51	+ 0·01	2·8	—	24	—	Birmingham.
p Oxford	77	27th	48	22nd	68·6	54·1	61·0	+ 7·2	133	0	0	36	57·3		56·5		2	0·20	—					Raunds.
											0	43					2	0·29	− 0·18	4·5	+ 0·2	38	+ 1	Oxford.
											0	43	55·5	+1·1	54·3	−0·3	—	—	—	2·6	—	22	—	Sheffield.
a Cheadle	75	27th	47	22nd	64·4	52·4	58·1	+ 6·5	113	0	0	45					4	0·55	− 0·09					Cheadle.
p Shrewsbury ..	78	27th	45	21st	66·6	52·0	59·0	+ 5·2	119	0	0	42					4	1·11	—					Shrewsbury.
b, West .. *a* Hereford ..	77	27th	47	22nd	67·9	51·9	59·5	+ 6·1	123	0	0	41					4	0·43	− 0·05					Hereford.
a Cirencester ..	75	27th	46	22nd	67·6	51·5	59·2	+ 6·1	120	0	0	43	56·9		56·2		2	0·36	− 0·22	4·0	− 0·2	34	− 2	Cirencester.
a Bath	78	27th	49	21st	70·1	53·7	61·5	+ 6·6	137	0			59·4	+1·4	59·1	+0·1	2	0·21	− 0·37	4·8	—	40	—	Bath.
5. ENGLAND, S.E.																								
p Kew	75	26th	47	22nd	65·9	53·4	60·8	+ 6·5	132	0	0	41	58·5	+1·8	58·3	+0·3	—	—	—					Canterbury.
a Marlborough	75	27th	42	21st	67·7	50·1	58·5	+ 6·5	116	0	0	43	57·4	+1·1	56·8	+0·2	1	0·21	− 0·29	4·8	+ 0·7	40	+ 5	Kew.
a Margate	72	26th	50	22nd	66·7	54·4	60·3	+ 4·3	128	0	0	38	—		56·2		1	0·27	− 0·26	4·4	+ 0·6	37	+ 5	Marlborough.
a Wisley, Surrey ..	76	26, 27	44	22nd	70·0	51·6	60·4	+ 5·8	129	0	0	44	57·4	+0·9	56·1	-1·1	3	0·05	− 0·45	5·1	+ 0·6	43	+ 5	Margate.
											0	38	57·8	+1·3	57·0	-0·6	1	0·11	—	5·2	—	44	—	Wisley.
											0	45	59·7	+1·9	59·4	+1·2	—	—	—	5·2	—	44	—	Worthing.
p Salisbury (Wilton) ..	74	27th	44	21st	68·9	51·0	59·5	+ 5·7	123	0	0	42	59·1				4	0·39	− 0·20					Salisbury.
a Tunbridge Wells ..											0	43					—	—	—					Tunbridge Wells.
a Dungeness	68	26th	45	22nd	65·3	53·3	59·0	+ 2·8	119	0	0	45					1	0·05	− 0·51	5·5	—	46	—	Littlestone.
p Hastings..	70	26th	48	21st	65·3	54·9	59·9	+ 3·8	125	0	0	46	59·3		59·0		1	0·05	− 0·65	*5·5*	+ *0·5*	*46*	+ *4*	*Hastings.*
p Southampton	72	27th	47	22nd	67·6	55·0	61·0	+ 5·3	133	0	0	42					1	0·30	− 0·30	4·6	− 0·1	39	− 1	Southampton.
a Ventnor	69	26th	51	21st	65·7	57·1	61·2	+ 3·8	134	0	0	41	59·7	+1·5	59·4	+0·3	1	0·16	− 0·46	4·8	− 0·2	41	− 2	Ventnor.
																	—	—	—	*4·5*	—	*38*	—	*Portsmouth.*
													59·8		59·4		—	—	—	5·1	+ 0·1	43	+ 1	Eastbourne.
													58·6		58·5		—	—	—	*5·6*	—	*47*	—	*Bournemouth.*
LONDON.															60·7		—	—	—	*5·4*	+ *0·5*	*45*	+ *4*	*Brighton.*
a Westminster	*76*	*26, 27*	*48*	*22nd*	*70·6*	*54·1*	*62·0*	+ *7·4*	*140*	*0*	0	46					*2*	*0·19*	- *0·29*	*4·5*	+ *1·5*	*40*	+*13*	*Westminster.*
a Greenwich	*77*	*26th*	*46*	*22nd*	*70·7*	*51·7*	*60·7*	+ *5·4*	*131*	*0*	0	35					*2*	*0·13*	- *0·35*	*5·7*	+ *1·2*	*48*	+*10*	*Greenwich.*
a Hampstead	*74*	*26, 27*	*50*	*21st*	*69·0*	*53·6*	*60·9*	—	*133*	*0*	0	35					*2*	*0·21*	—	*4·6*	—	*39*	—	*Hampstead.*
a Camden Square ..	*78*	*26, 27*	*47*	*22nd*	*72·4*	*51·9*	*61·7*	—	*138*	*0*	0	44					*2*	*0·19*	—	*4·2*	—	*35*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	65	24, 26	38	22nd	61·3	49·6	55·2	+ 3·4	92	0							5	0·68	− 0·46					
p Glasgow	68	24th	46	22nd	62·0	53·3	57·4	+ 6·1	108	0	0	36					5	0·62	− 0·15	0·8	− 2·2	7	−19	Glasgow.
p Rothesay	65	24th	42	22nd	60·4	50·4	55·2	+ 3·2	92	0	0	38	54·0		53·2	+0·1	5	0·88	− 0·12					
a Kilmarnock ..	66	24th	41	22nd	63·1	50·6	56·6‡	+ 5·1	102	0	0	38					4	1·13	—	*1·2*	—	*10*	—	*Kilmarnock.*
a Colmonell ..	66	24th	41	22nd	62·3	52·9	56·9	+ 4·7	104	0	0	40					5	1·00	+ 0·03					
p Dumfries	71	24th	41	22nd	64·7	52·6	58·4‡	+ 6·5	115	0	0	37	55·8		56·0		4	0·82	+ 0·08	*2·4*	—	*20*	—	*Dumfries.*
p Cally, Gatehouse	66	27th	36	22nd	61·4	46·4	53·5	+ 2·4	81	0							5	1·65	+ 0·70					
b I. OF MAN																								
p Douglas	65	27th	49	21st	60·9	53·9	57·2	+ 4·9	106	0	0	45					5	1·40	+ 0·46	2·0	− 2·3	17	−20	Douglas.
											0	43	55·4	+2·8	54·3	+1·0	—	—	—	*2·2*	—	*19*	—	*Burnley.*
																	—	—	—	2·0	—	17	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	71	24th	47	22nd	65·6	52·9	59·0	+ 7·4	119	0	0	39	54·9		53·9		4	0·52	− 0·37	2·0	—	17	—	Aspatria.
p Newton Rigg	70	27th	43	22nd	64·3	51·6	57·7	+ 7·5	110	0	0	37	55·7	+1·2	54·5	+0·5	4	0·66	− 0·07	2·3	− 1·4	19	−12	Newton Rigg.
p Stonyhurst	73	27th	50	22nd	64·3	54·1	59·0	+ 7·2	119	0	0	43					4	1·32	+ 0·33	1·8	− 2·0	15	−17	Stonyhurst.
p Blackpool	73	27th	50	22nd	64·9	54·9	59·7	+ 5·9	124	0	0	48	56·4		55·1		4	2·24	+ 1·48	2·1	− 1·8	18	−15	Blackpool.
p Manchester (Whit. Pk.)	78	27th	51	22nd	67·0	55·3	60·9	+ 7·9	132	0	0	48					4	0·80	+ 0·13	*2·5*	- *1·6*	*21*	- *5*	*Whit. Park.*
a Liverpool (Bidston) ..	72	27th	51	22nd	63·7	53·4	58·3	+ 4·8	114	0							4	1·39	+ 0·73	*2·0*	—	*17*	—	*Liverpool.*
a Hawarden Bridge ..	79	27th	49	22nd	67·1	54·1	60·3	+ 6·0	128	0	0	38	57·4	+1·5	57·0	-0·1	4	1·02	+ 0·51	*2·2*	- *1·7*	*19*	- *14*	*Southport.*
											0	46	57·8	+2·5	59·4	+2·8	—	—	—	*2·5*	—	*21*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	74	27th	51	22nd	66·1	54·7	60·1	+ 5·3	127	0							5	1·53	+ 0·90	2·2	- 1·7	19	−14	Llandudno.
a Holyhead	73	27th	51	21st	63·4	55·1	59·1	+ 4·7	120	0							4	1·37	+ 0·65	*1·9*	—	*16*	—	*Holyhead.*
p Bettws-y-Coed ..	71	27th	51	25th	65·0	54·7	59·6	+ 5·8	123	0	0	45	55·6	+2·5	54·7	+1·2	6	1·34	—	0·4	—	3	—	Bettws-y-Coed.
																	—	—	—	2·4	—	20	—	Aberdovey.

* For notes see also opposite page.

† At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	in.	in.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	76	27th	43	22nd	65·6	50·4	57·6	+ 6·1	109	0	0	40	55·3	+0·9	54·8	+0·4	4	0·87	—	2·1	—	18	—	Aberystwyth.
a Pembroke	69	27th	52	21, 22	62·3	55·3	58·6	+ 3·3	116	0	•	•	•	•	•	•	5	1·44	+ 0·70	2·5	—	21	—	Llangammarch
p Cardiff	75	27th	49	22nd	66·4	54·0	59·9	+ 6·3	125	0	0	46	57·8	+2·6	57·3	+0·6	3	0·47	- 0·41	1·1	- 3·3	9	-28	Pembroke.[Wells
																				4·1	—	*35*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	78	27th	50	21st	68·7	55·3	61·7	+ 7·1	138	0	0	44	•	•	•	•	3	0·29	- 0·38	*4·3*	—	*36*	—	*Clifton.*
a Shaftesbury	72	27th	43	21st	65·0	53·6	59·0	+ 5·2	119	0	•	•	58·1	•	58·0	•	1	0·26	- 0·41	•	•	•	•	Shaftesbury.
a Arlington	72	27th	45	22nd	64·1	51·3	57·4	+ 4·4	108	0	•	•	•	•	•	•	4	0·34	- 0·33	•	•	•	•	Arlington.
a Newquay	*69*	*27th*	*53*	*22nd*	*63·7*	*56·1*	*59·7*	*+ 4·0*	*124*	*0*	•	•	58·6	•	•	•	*4*	*0·36*	*- 0·37*	2·4	- 2·2	20	-19	Newquay.
a Cullompton	75	27th	46	21, 22	68·7	51·7	59·8	+ 5·8	125	0	0	43	58·1	•	•	•	3	0·21	- 0·44	3·0	- 1·1	25	- 9	Cullompton.
a Portland	65	25–27	55	21, 22	63·6	58·0	60·7	+ 4·2	131	0	•	•	•	•	•	•	1	0·10	—	*5·2*	—	*44*	—.	*Weymouth.*
p Plymouth	74	27th	48	22nd	66·1	55·3	60·4	+ 4·9	129	0	0	40	58·6	+0·8	•	•	3	0·12	- 0·57	3·0	- 1·6	25	-14	Plymouth.
a Falmouth	66	21, 27	52	21, 22	63·4	55·9	59·5	+ 4·1	123	0	•	•	•	•	•	•	3	0·21	- 0·65	2·8	- 1·9	24	-16	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	67	24th	?	?	60·9	?	?	?	?	?	•	•	•	•	•	•	5	0·59	- 0·11	•	•	•	•	• •
a Blacksod Point ..	62	27th	46	24th	60·3	50·9	55·4	+ 2·5	94	0	•	•	•	•	•	•	7	2·18	+ 1·15	•	•	•	•	• •
p Markree Castle ..	68	24th	46	21st	62·9	49·3	55·8	+ 4·5	97	0	0	38	57·3	•	56·0	•	5	1·11	+ 0·24	2·4	- 1·0	20	- 9	Markree Castle.
a Birr Castle	67	24th	44	21st	63·4	52·0	57·4	+ 5·4	108	0	•	•	•	•	•	•	6	1·08	+ 0·52	*1·9*	*- 2·0*	*16*	*- 17*	*Birr Castle.*
b, East .. *p* Armagh	67	24th	45	22nd	64·0	51·6	57·5	+ 5·9	109	0	0	38	55·9	+0·2	55·2	-0·4	6	0·68	+ 0·07	1·8	- 1·8	15	-15	Armagh.
a Donaghadee	65	24th	45	22nd	60·0	51·7	55·7	+ 2·9	96	0	•	•	•	•	•	•	5	0·86	+ 0·24	•	•	•	•	• •
											0	41	56·6	+0·8	56·3	+0·4	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	40	•	•	•	•	—	—	—	0·7	- 3·7	6	-31	Phœnix Park.
p Dublin, City	66	25th	49	21st	62·1	53·9	57·8	+ 3·8	111	0	0	45	•	•	•	•	5	0·76	+ 0·25	•	•	•	•	Dublin City.
a, East .. *a* Kilkenny	67	27th	50	21, 26	63·4	53·4	58·2	+ 5·9	113	0	•	•	•	•	•	•	7	1·47	+ 0·89	•	•	•	•	• •
a Waterford	66	27th	44	21st	62·9	53·7	58·1	+ 4·7	113	0	•	•	•	•	•	•	7	1·80	+ 1·06	•	•	•	•	• •
a Carrick-on-Suir ..	*65*	*27th*	*50*	*21st*	*61·7*	*53·3*	*57·3*	—	*107*	*0*	0	47	•	•	•	•	7	*2·49*	—	*1·8*	—	*15*	—	*Carrick-on-Suir.*
b, West .. *a* Birr Castle	67	24th	44	21st	63·4	52·9	57·4	+ 5·4	108	0	•	•	•	•	•	•	6	1·03	+ 0·52	1·9	- 2·0	16	-17	Birr Castle.
a Foynes	64	26th	49	25th	62·0	52·9	57·2	+ 3·7	106	0	•	•	•	•	•	•	7	1·10	+ 0·37	•	•	•	•	• •
a Cahir	68	25th	52	21, 22, 24	64·3	53·9	58·9	+ 5·6	118	0	•	•	•	•	•	•	7	1·44	—	•	•	•	•	• •
a Killarney	70	24th	47	21st	66·1	53·3	59·4	+ 5·9	122	0	•	•	•	•	•	•	7	1·39	+ 0·43	•	•	•	•	• •
a Valencia	64	21, 26	48	21st	62·9	52·3	57·4	+ 2·8	108	0	•	•	•	•	•	•	7	2·98	+ 1·94	1·8	- 2·2	15	-19	Valencia.
a Roche's Point	63	24, 27	51	21, 22	62·0	55·0	58·3	+ 3·8	114	0	•	•	•	•	•	•	7	2·28	+ 1·53	1·5	—	13	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	64	21, 24	51	21st	62·1	55·4	58·6	+ 1·5	116	0	•	•	•	•	•	•	6	0·65	- 0·01	1·4	- 3·6	12	-31	Scilly.
a Jersey, St. Aubins ..	76	27th	50	22nd	69·6	57·0	63·0	+ 4·5	147	0	•	•	•	•	•	•	0	0·00	- 0·74	6·9	+ 1·5	58	+12	St. Heliers.
a Guernsey (Villa Carey)	77	27th	50	22nd	70·1	56·9	63·2	+ 5·4	148	0	0	43	61·0	+1·6	60·6	+0·2	1	0·06	- 0·74	6·7	+ 1·6	56	+13	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·0 hrs. 42 °/₀; Ramsgate, 5·3 hrs. 45 °/₀; Rhyl, 2·3 hrs. 19 °/₀; Salcombe, 4·4 hrs. 37 °/₀; Tenby, 2·1 hrs. (−2·5) 18 °/₀ (−21); Torquay, 3·5 hrs. (−1·3) 29 °/₀ (−11).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, September 27th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	53	53	53·0	+1·7	SCOTLAND, W. ..	Lamlash	55	50	53·2	-1·2
	Kirkwall	55	53	53·7	+1·8		Ballantrae	56	52	54·1	+0·5
	Wick	54	53	53·3	+1·3	ENGLAND, N.W. ..	Port Erin	57	56	56·4	+0·7
SCOTLAND, E. ..	Cromarty	55	53	54·0	+0·4		Newquay	59	59	59·0	-0·2
	Pennan Bay	57	55	55·5	+2·4	ENGLAND, S.W. ..	Scilly	58	58	58·0	—
	Aberdeen, Cove Bay	55	54	54·6	+2·0		Plymouth‡	61	60	60·1	+2·0
ENGLAND, N.E. ..	Burnmouth, Berwick	53	51	52·0	-0·2		Salcombe	62	59	60·2	+1·4
	Scarborough	55	52	53·5	-0·2	IRELAND, N.W. ..	Sheephaven	57	54	56·0	-0·4
ENGLAND, E. ..	Shipwash Lightship	63	60	61·9	+2·2		Teelin	59	57	57·7	+0·8
ENGLAND, S.E. ..	Eastbourne‡	62	60	60·7	+0·9	IRELAND, S.W. ..	Cleggan	58	54	56·2	+1·0
							Seafield	60	58	59·5	+1·9

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-NINTH WEEK—September 21st to September 27th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	71	38	60·6	49·3	54·7	+ 5·0	89	+ 33	0	− 2	5	0	0·56	−0·70	2·5	−0·5	21	− 4
Eastern.																		
1. SCOTLAND, EAST ...	74	40	62·2	49·6	55·6	+ 5·5	95	+ 36	0	− 2	4	− 1	0·56	−0·11	2·1	−1·3	18	−11
2. ENGLAND, N.E.	79	44	64·7	52·7	58·4	+ 6·1	115	+ 42	0	0	4	0	0·69	+0·29	3·1	−0·9	26	− 7
3. ENGLAND, EAST ...	76	44	67·2	53·0	59·7	+ 6·1	124	+ 42	0	− 1	2	− 2	0·12	−0·41	4·6	+0·2	39	+ 1
4. MIDLAND COUNTIES ...	79	38	67·6	52·4	59·6	+ 7·2	123	+ 48	0	− 1	3	− 1	0·45	−0·09	3·5	−0·4	29	− 4
5. ENGLAND, S.E.	76	42	67·3	53·4	60·1	+ 5·1	127	+ 35	0	0	1	− 3	0·18	−0·44	5·0	+0·5	42	+ 4
Western.																		
6. SCOTLAND, WEST ...	71	36	62·0	51·1	56·3	+ 4·8	100	+ 33	0	− 1	5	0	1·02	−0·12	1·4	−2·1	12	−18
7. ENGLAND, N.W.	79	43	65·1	54·1	59·4	+ 6·5	122	+ 45	0	0	4	0	1·22	+0·40	1·9	−1·8	16	−15
8. ENGLAND, S.W.	78	43	65·4	54·1	59·5	+ 5·2	123	+ 37	0	0	3	− 1	0·43	−0·46	2·4	−1·8	20	−15
9. IRELAND, NORTH ...	68	44	62·1	51·1	56·4	+ 4·3	101	+ 30	0	0	6	+ 1	1·08	+0·21	2·1	−1·3	18	−11
10. IRELAND, SOUTH ...	70	44	63·2	53·4	58·1	+ 4·6	113	+ 33	0	0	7	+ 2	1·59	+0·88	1·5	−2·6	12	−22
11. ENGLISH CHANNEL ...	77	50	67·3	56·4	61·6	+ 4·1	137	+ 29	0	0	2	− 3	0·24	−0·53	5·0	−0·1	42	− 1

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 4 Weeks, August 31st to September 27th, 1913.

0. SCOTLAND, NORTH ...	71	33	*	*	*	*	287	+ 13	0	− 3	16	− 3	2·41	−1·81	2·8	−0·6	23	− 4
Eastern.																		
1. SCOTLAND, EAST ...	74	28	*	*	*	*	294	0	0	− 4	14	− 1	2·62	+0·45	2·4	−1·6	19	−13
2. ENGLAND, N.E.	79	35	*	*	*	*	404	+ 58	0	0	15	+ 2	2·23	+0·42	3·9	−0·6	31	− 5
3. ENGLAND, EAST ...	76	37	*	*	*	*	455	+ 63	0	− 1	13	+ 1	1·95	+0·13	4·2	−0·8	34	− 6
4. MIDLAND COUNTIES ...	79	35	*	*	*	*	419	+ 59	0	− 2	13	+ 1	2·28	+0·39	3·5	−0·9	27	− 8
5. ENGLAND, S.E.	76	38	*	*	*	*	463	+ 38	0	0	13	+ 1	3·22	+1·12	4·4	−0·7	35	− 6
Western.																		
6. SCOTLAND, WEST ...	71	31	*	*	*	*	338	+ 20	0	− 1	12	− 3	2·75	−1·04	2·7	−1·5	21	−12
7. ENGLAND, N.W.	79	32	*	*	*	*	412	+ 51	0	0	11	− 3	2·58	−0·17	3·8	−0·5	30	− 4
8. ENGLAND, S.W.	78	36	*	*	*	*	435	+ 40	0	0	14	0	3·57	+0·71	3·5	−1·3	28	−11
9. IRELAND, NORTH ...	69	35	*	*	*	*	360	+ 25	0	0	18	+ 1	3·49	+0·54	3·1	−0·7	25	− 5
10. IRELAND, SOUTH ...	73	35	*	*	*	*	402	+ 34	0	0	18	+ 3	4·02	+1·36	3·4	−1·1	27	− 9
11. ENGLISH CHANNEL ...	77	47	*	*	*	*	509	+ 33	0	0	12	− 3	1·93	−0·46	5·5	−0·5	44	− 5

THE YEAR.—Aggregates, &c., for the Period of 39 Weeks, December 29th, 1912, to September 27th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,818	− 10	424	−136	165	−14	31·12	−4·51	3·2	−0·4	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	1,965	− 99	601	− 23	143	− 5	20·00	−1·74	3·7	−0·6	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	2,334	+ 38	406	− 69	133	0	16·55	−0·72	3·8	−0·8	29	− 6
3. ENGLAND, EAST ...	84	20	*	*	*	*	2,691	+ 39	303	−219	126	− 2	14·96	−1·77	4·3	−0·7	32	− 6
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,597	+ 1	392	−143	128	+ 1	19·21	+0·56	3·6	−0·8	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	2,808	− 36	221	−160	122	0	18·45	+0·24	4·4	−0·7	34	− 5
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,195	− 26	323	−103	150	− 5	29·55	−3·09	3·8	−0·6	28	− 5
7. ENGLAND, N.W.	79	10	*	*	*	*	2,423	− 5	298	− 88	144	+ 2	24·89	+0·93	4·1	−0·3	31	− 3
8. ENGLAND, S.W.	83	19	*	*	*	*	2,682	− 5	221	− 80	144	+ 5	27·37	+1·86	4·3	−0·7	33	− 5
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,230	− 92	297	− 48	170	+ 1	27·68	+0·87	3·7	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,590	− 64	243	− 16	170	+20	31·55	+3·71	4·0	−0·5	31	− 4
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,044	− 18	38	− 71	140	− 8	20·20	−0·87	5·0	−1·0	39	− 8

M.O., October 1, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 30 years only.

FOR OFFICIAL USE

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 40. FORTIETH WEEK, SUNDAY, SEPTEMBER 28TH, TO SATURDAY, OCTOBER 4TH, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. During the period as a whole the weather was fair and dry, although the atmosphere was frequently misty at night and in the early morning hours. Thunderstorms occurred over a large portion of England during the latter half of the week, and the rain was very heavy locally; heavy rain was also experienced on Saturday at Killarney.

Temperature was above the average, the excess amounting to between 6° and 7° over the whole of England and Ireland, and to more than 7° in the Midland Counties and England East. The highest of the maxima were recorded on September 28th at nearly all stations, and varied from 76° in the English Channel, and 74° in the Midland Counties to 70° in Scotland North. The lowest of the minima occurred, as a rule, on the 3rd or 4th, and ranged from 35° in Scotland East to 47° in Ireland South, and to 53° in the English Channel. The lowest grass readings were 31° at West Linton, and 33° at Balmoral and Newton Rigg. The temperature of the soil was above the normal in all parts of the Kingdom, both at a depth of 1 foot and 4 feet.

Mean Temperature of the Sea was above the normal—more than 2° at many stations. Compared with the corresponding week of last year the water was very warm. At Teelin and the Shipwash Lightship its temperature was about 6° higher, and at Seafield 8° higher. The mean for the week ranged from about 61°·5 at Eastbourne and the Shipwash Lightship, and about 60° on the south coast of Devon to 53° at Lerwick, and to 52·3 at Burnmouth.

Rainfall was less than the normal in all districts except the Midland Counties, the deficiency being very marked in Scotland and the north of Ireland. Some heavy falls occurred during the later days of the week in various parts of England, the Channel Islands, and the south of Ireland, mostly with thunder and lightning. At Norwich on October 3rd 0·85 in. fell in about 13 minutes, and 1·25 in. within 30 minutes. At Guernsey on October 1st there was 1·3 in.; at Oxford on October 2nd 1·8 in., and at Cullompton 1·1 in.; at Cheadle on the 3rd 1·1 in.; and at Killarney on the 4th 2·1 in.

Bright Sunshine exceeded the average in Scotland North and West, Ireland North, and England South-East, East and North-West, but was below it elsewhere. In England East the daily mean was about 5·5 hours, and the percentage of the possible 47, but in the Midland Counties and Scotland East the daily mean was no higher than 2·8 hours and 2·4 hours, giving a percentage of 25 and 21.

Barometer and Wind. During the greater part of the week pressure was highest over Scandinavia, and lowest off the south-west of this country and the Bay of Biscay, the gradient being moderate or slight for South-Easterly to Easterly or North-Easterly winds. Some modification in the distribution was, however, brought about on Friday, when a shallow depression extended over Wales from the south-westward, and a small disturbance lay between the English and Dutch coasts. By Saturday the barometer had become highest over the Azores region and relatively high over Iceland, while a depression of little depth but considerable size, was extending over the United Kingdom from the Atlantic, causing a Southerly to South-Easterly current of wind.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 159.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Very light	Very light	Light	Light	Moderate	Light	Very light	Very light	Light	Very light	Moderate	Moderate
	Sunshine ...	Abundant	Scanty	Moderate	Moderate	Scanty	Abundant	Moderate	Abundant	Scanty	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 5 weeks from Aug. 31st, 1913.	Warmth ...	2 * 0	2 * 0	2 * 0	3 * 0	3 * 0	3 * 0	2 * 0	3 * 0	3 * 0	2 * 0	3 * 1	3 * 0
	Rainfall ...	0 * 3	2 * 2	2 * 1	2 * 3	2 * 0	2 * 3	1 * 2	2 * 3	1 * 2	2 * 2	3 * 1	1 * 1
	Sunshine ...	2 * 2	0 * 5	1 * 2	1 * 1	0 * 2	2 * 1	0 * 3	2 * 2	0 * 4	0 * 3	0 * 3	0 * 3

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(31999—24.) Wt. 196—786. 450. 10/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Hours per Day. Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands..																								
p Baltasound .. S	*58*	*28th*	*41*	*3, 4*	*53·0*	*45·5*	*49·1*	—	*50*	*0*	*	*	51·4	*	*	*	*4*	*0·12*	—	*0·8*	—	*7*	—	*Baltasound.*
a Lerwick..	57	1st	44	3, 4	54·4	48·3	51·3	+ 3·6	65	0	*	*	*	*	*	*	2	0·06	—	1·2	− 1·9	11	−17	Deerness.
a Stornoway	61	30th	39	3rd	57·4	44·6	50·8	+ 2·5	62	0	*	*	*	*	*	*	1	0·01	− 1·18	4·5	+ 1·3	40	+11	Stornoway.
a Castlebay, Barra Isd.‡..	*65*	*28th*	*47*	*3rd*	*59·4*	*50·9*	*55·0*	*+ 4·9*	*91*	*0*	*	*	*	*	*	*	*0*	*0·09*	—	*5·3*	—	*47*	—	*Castlebay.*
b, Mainland.																								
a Wick	57	28th	41	4th	54·6	48·0	51·2	+ 2·3	64	0	*	*	*	*	*	*	3	0·08	− 0·57	*	*	*	*	* *
p Strathpeffer	67	30th	39	2nd	61·4	44·4	52·7	+ 4·1	75	0	*	*	*	*	*	*	1	0·02	− 0·59	3·6	+ 0·3	32	+ 2	Strathpeffer.
p Glencarron .. S	67	28th	37	2nd	59·4	44·2	51·6	+ 4·3	67	0	*	*	*	*	*	*	2	0·11	− 1·96	*	*	*	*	* *
p Fort Augustus.. S	60	28th	42	29, 3	56·1	45·1	50·4	+ 1·1	59	0	*	*	*	*	*	*	0	0·00	− 0·94	4·6	+ 2·2	41	+20	Fort Augustus.
p Fort William .. S	70	28th	40	2, 3	61·9	43·6	52·5	+ 2·2	74	0	*	*	*	*	*	*	0	0·00	− 1·77	*	*	*	*	* *
1. SCOTLAND, E.											0	41	54·7	+2·4	53·6	+0·8	—	—	—	1·8	—	16	—	Crathes S.
p Gordon Castle.. S											*	*	*	*	*	*	—	—	—	*	*	*	*	*Gordon Castle*
a Nairn	61	28, 30	35	1, 2	56·3	39·9	47·9	− 1·0	50	6	*	*	*	*	*	*	1	0·03	− 0·49	3·5	—	31	—	Nairn.
a Aberdeen	62	28th	49	1, 4	58·7	51·1	51·8	+ 4·9	90	0	*	*	*	*	52·6	+1·0	1	0·15	− 0·47	1·3	+ 2·3	12	− 20	Aberdeen.
a Balmoral .. S	66	28th	35	29th	57·6	40·3	48·7	+ 2·5	54	5	0	33	*	*	*	*	1	0·15	− 0·60	*	*	*	*	Balmoral.
p Crieff .. .. S	68	28th	47	4th	57·7	49·4	53·4	+ 3·5	80	0	*	*	*	*	*	*	1	0·04	− 0·77	2·0	—	18	—	Balruddery.
a Leith	72	28th	44	4th	59·4	51·3	55·2	+ 4·2	92	0	*	*	*	*	*	*	1	0·44	− 0·01	*	*	*	*	* *
p West Linton .. S	70	28th	40	4th	58·1	46·1	51·9	+ 3·8	69	0	0	31	*	*	*	*	2	0·07	—	*2·4*	—	*21*	—	*West Linton.*
p Marchmont .. S	70	28th	43	29th	59·7	48·0	53·7	+ 4·2	82	0	?	?	54·6	+3·0	*	*	1	0·03	− 0·70	3·3	0·0	29	0	Marchmont.
2. ENGLAND, N.E.																								
a, North..																								
a Alnwick Castle ..	64	28th	47	4th	58·9	50·7	54·7	+ 4·9	89	0	0	41	54·5	+2·9	53·9	+2·0	2	0·28	− 0·43	1·9	—	17	—	Cockle Park.
a Shields	64	28th	50	4th	58·6	53·1	55·8	+ 5·1	97	0	*	*	*	*	*	*	5	0·19	− 0·41	*	*	*	*	* *
p Durham..	69	28th	42	4th	59·1	49·3	51·1	+ 4·1	85	0	0	40	*	*	*	*	3	0·32	− 0·28	2·0	− 1·4	18	−12	Durham.
p Rounton..	70	28th	41	4th	61·3	48·7	54·8	+ 5 0	90	0	0	37	56·8	*	*	*	1	0·08	− 0·47	*	*	*	*	Rounton.
a West Witton	*68*	*28th*	*44*	*4th*	*58·9*	*50·4*	*54·5*	—	*88*	*0*	0	38	55·6	*	53·1	*	*2*	*0·47*	—	*	*	*	*	*West Witton.*
p Scarborough	64	28th	52	4th	59·3	51·3	56·7	+ 4·8	103	0	*	*	*	*	57·5†	*	2	0·59	− 0·01	2·6	− 0·7	23	− 7	Scarborough.
p York	71	28th	51	4th	63·0	53·6	58·2	+ 6·8	113	0	*	*	57·5	+2·8	56·1	+1·1	3	0·64	+ 0·12	3·9	—	34	—	York.
											0	46	57·0	+4·4	55·0	+0·7	—	—	—	*2·6*	—	*23*	—	*Hull.*
b, South ..																								
a Spurn Head	?	?	?	?	?60·8	?54·9	?57·8	+ 5·1	111	0	*	*	*	*	*	*	4	0·68	+ 0·24	*4·6*	—	*41*	—	*Spurn Head.*
a Lincoln	72	28th	50	29th	65·6	54·0	59·6	+ 8·1	123	0	*	*	58·1	+3·6	56·9	+1·8	2	0·18	− 0·32	*	*	*	*	Lincoln.
a Fulbeck	70	28th	49	28th	65·0	53·1	58·9	+ 7·2	118	0	0	41	58·7	+4·1	56·3	+0·6	1	0·06	− 0·43	4·0	—	35	—	Rauceby.
											*	*	*	*	*	*	—	—	—	5·8	—	51	—	Skegness.
3. ENGLAND, E.											0	47	59·3	+2·8	58·6	+1·3	—	—	—	*6·1*	—	*54*	—	*Lowestoft.*
a, North ..																								
p Cromer	67	28th	50	4th	64·1	55·4	59·6	+ 7·1	123	0	*	*	*	*	*	*	3	0·22	—	5·6	—	49	—	Cromer.
p Little Massingham ..	70	28th	49	28, 29, 4	64·3	50·7	57·3	+ 5·2	107	0	0	43	*	*	*	*	4	0·05	− 0·59	5·4	+ 1·6	47	+14	Lit. Massingham.
a Yarmouth	64	29, 3	49	4th	63·0	56·7	59·8	+ 7·1	125	0	*	*	59·9	+3·3	59·0	+1·2	3	0·40	− 0·19	5·1	—	45	—	Yarmouth.
a Norwich	68	28th	48	29th	65·1	52·6	58·7	+ 5·4	117	0	0	42	57·5	*	*	*	1	0·76	—	*5·1*	—	*45*	—	*Norwich.*
p Geldeston	65	28, 29, 4	46	29th	64·0	52·0	57·8	+ 5·5	111	0	*	*	*	*	*	*	4	0·09	− 0·50	5·8	+ 1·5	51	+13	Geldeston.
b, South ..																								
p Cambridge	71	28th	47	4th	66·6	50·4	58·3	+ 6·2	114	0	0	42	58·3	+2·5	58·0	+0·9	2	0·11	− 0·38	4·9	+ 0·8	43	+ 7	Cambridge.
a Felixstowe	*65*	*3rd*	*49*	*4th*	*63·7*	*55·9*	*59·7*	*+ 6·2*	*124*	*0*	*	*	*	*	*	*	*1*	*0·04*	—	*7·4*	—	*65*	—	*Felixstowe.*
a Clacton-on-Sea ..	66	30th	50	4th	64·1	56·0	59·9	+ 6·5	125	0	0	42	59·5	+2·6	59·0	+1·4	0	0·00	—	7·0	—	61	—	Clacton.
a Rothamsted .. .	72	28, 29	48	4th	66·0	50·9	58·2	+ 7·2	113	0	*	*	*	*	*	*	5	0·35	− 0·25	3·5	− 0·6	31	− 5	Rothamsted.
a Shoeburyness	*66*	*3rd*	*51*	*4th*	*64·4*	*53·9*	*59·0*	*+ 4·8*	*119*	*0*	0	37	61·9	+3·4	*	*	*1*	*0·31*	*− 0·15*	*6·2*	—	*54*	—	*Southend.*
p Tottenham	71	28th	50	4th	67·3	53·1	60·0	+ 6·6	126	0	0	43	*	*	59·6	+2·1	2	0·40	—	5·6	—	49	—	Tottenham.
4. MIDLAND COUNTIES.											0	44	57·0	+3·8	54·8	+0·9	—	—	—	*2·1*	—	*18*	—	*Huddersfield.*
a, East ..																								
a Harrogate	68	28th	47	28th	60·0	51·4	55·6	+ 5·3	95	0	0	43	55·8	+3·1	55·0	+2·2	3	0·39	− 0·27	2·6	—	23	—	Harrogate.
a Bawtry	73	28th	45	28th	64·1	51·9	57·8	+ 6·6	111	0	0	40	57·6	*	55·8	*	3	0·66	+ 0·18	3·9	+ 0·7	34	+ 6	Worksop.
p Buxton	*67*	*28th*	*47*	*28, 29*	*59·9*	*50·1*	*54·9*	*+ 6·6*	*90*	*0*	0	44	56·2	+3·3	54·4	+1·4	*3*	*1·00*	*+ 0·03*	*2·2*	—	*19*	—	*Buxton.*
a Nottingham	70	28th	47	29th	64·9	52·7	58·6	+ 6·8	116	0	0	45	58·4	+4·3	57·5	+2·0	2	0·25	− 0·27	3·9	—	34	—	Nottingham.
p Birmingham, Edgbsn.	71	28th	50	29, 4	62·6	52·9	57·6	+ 6·6	109	0	0	42	55·5	+2·8	53·5	+0·7	3	0·25	− 0·30	2·1	—	18	—	Birmingham.
a Raunds	73	28th	46	28th	66·7	50·7	58·5	+ 6·7	116	0	0	37	57·5	*	56·5	*	3	0·45	—	*	*	*	*	Raunds.
p Oxford	73	28th	50	28-30	64·6	51·7	58·0	+ 5·9	112	0	0	42	*	*	*	*	3	1·96	+ 1·42	3·1	− 0·9	27	− 8	Oxford.
											0	43	56·3	+2·3	54·4	+0·5	—	—	—	1·5	—	13	—	Sheffield.
b, West ..																								
a Cheadle	68	28th	46	29th	61·6	51·7	56·5	+ 6·5	102	0	0	44	*	*	*	*	2	1·22	+ 0·55	*	*	*	*	Cheadle.
p Shrewsbury	70	28th	45	29th	63·9	50·7	57·1	+ 4·9	106	0	0	40	*	*	*	*	3	0·25	—	*	*	*	*	Shrewsbury.
a Hereford	68	28th	48	28, 29	62·6	50·4	56·3	+ 6·3	100	0	0	41	*	*	*	*	2	1·12	+ 0·59	*	*	*	*	Hereford.
a Cirencester	72	28th	46	4th	63·7	50·8	57·1	+ 5·5	106	0	0	44	57·6	*	56·4	*	4	1·32	+ 0·68	3·0	− 0·9	26	− 8	Cirencester.
a Bath	74	28th	48	4th	66·6	52·6	59·4	+ 5·9	122	0	*	*	59·4	+2·0	59·2	+0·7	3	0·27	− 0·34	2·3	—	20	—	Bath.
5. ENGLAND, S.E.											0	41	59·5	+3·4	58·2	+0·8	—	—	—	*	*	*	*	Canterbury.
p Kew	72	28th	49	4th	66·7	53·1	59·7	+ 6·9	124	0	0	41	58·3	+2·3	56·9	+0·6	3	0·43	− 0·11	4·7	+ 0·9	41	+ 8	Kew.
a Marlborough	73	28th	45	4th	65·3	48·6	56·7	+ 6·1	103	0	0	40	*	*	56·3	*	3	0·26	− 0·32	2·5	− 1·0	22	− 9	Marlborough.
a Margate	66	28th	50	3rd	64·1	54·7	59·3	+ 4·8	121	0	0	44	57·9	+2·5	57·0	+0·3	2	0·05	− 0·49	7·1	+ 3·0	62	+26	Margate.
a Wisley, Surrey ..	72	28th	47	4th	66·7	51·0	58·6	+ 5·4	116	0	0	39	58·6	+2·8	57·2	+0·1	2	0·30	—	4·8	—	42	—	Wisley.
											0	47	59·7	+2·5	59·3	+2·0	—	—	—	5·7	—	50	—	Worthing.
p Salisbury (Wilton) ..	71	28th	49	4th	66 0	51·1	58·3	+ 6·0	114	0	0	46	59·9	*	*	*	3	0·57	− 0·11	*	*	*	*	Salisbury.
a Tunbridge Wells ..											*	*	*	*	*	*	—	—	—	*	*	*	*	Tunbridge Wells.
a Dungeness	66	28th	50	4th	64·9	55·7	60·2	+ 5·3	127	0	*	*	*	*	*	*	2	0·20	− 0·40	7·6	—	67	—	Littlestone.
p Hastings..	68	29th	52	4th	65·4	54·7	59·9	+ 5·4	125	0	0	45	60·0	*	58·9	*	4	0·23	− 0·53	*7·0*	*+ 2·4*	*61*	*+21*	*Hastings.*
p Southampton	71	29th	52	4th	65·9	54·1	59·8	+ 5·6	125	0	0	46	*	*	*	*	3	0·40	− 0·28	3·8	− 0·6	33	− 5	Southampton.
a Ventnor	68	30th	55	4th	64·3	57·3	60·7	+ 4·6	131	0	*	*	*	*	*	*	4	0·23	− 0·37	4·2	− 0·5	37	− 5	Ventnor.
											0	44	59·6	+2·3	59·5	+0·7	—	—	—	*4·9*	—	*43*	—	*Portsmouth.*
											*	*	60·4	*	59·6	*	—	—	—	5·9	+ 1·3	52	+12	Eastbourne.
											*	*	59·2	*	58·9	*	—	—	—	*4·1*	—	*36*	—	*Bournemouth.*
LONDON.											*	*	*	*	*	*	—	—	—	*	*	*	*	*Brighton.*
a Westminster	*71*	*28th*	*51*	*4th*	*67·4*	*54·4*	*60·7*	*+ 8·1*	*131*	*0*	0	44	*	*	*	*	*2*	*0·17*	*− 0·36*	*5·0*	*+ 2·1*	*44*	*+19*	*Westminster.*
a Greenwich	*71*	*28th*	*48*	*3, 4*	*67·9*	*50·9*	*59·2*	*+ 5·4*	*120*	*0*	0	36	*	*	*	*	*1*	*0·22*	*− 0·28*	*5·7*	*+ 1·7*	*50*	*+15*	*Greenwich.*
a Hampstead	*69*	*28th*	*49*	*4th*	*65·4*	*51·7*	*58·4*	—	*115*	*0*	0	37	*	*	*	*	*1*	*0·15*	—	*5·3*	—	*47*	—	*Hampstead.*
a Camden Square ..	*73*	*29th*	*50*	*4th*	*69·7*	*52·3*	*60·7*	—	*131*	*0*	0	45	*	*	*	*	*1*	*0·14*	—	*4·7*	—	*41*	—	*Camden Square.*
6. a, SCOTLAND, W.																								
a Poltalloch .. S	66	28, 29	44	2, 3	62·4	48·1	55·0	+ 4·7	91	0	*	*	*	*	*	*	0	0·00	− 1·14	*	*	*	*	* *
p Glasgow	67	28th	48	4th	58·9	51·9	55·3	+ 5·5	93	0	0	41	*	*	*	*	0	0·00	− 0·77	2·0	− 0·7	18	− 7	Glasgow.
p Rothesay .. S	64	28th	49	2, 4	59·1	51·0	54·9	+ 4·2	90	0	0	42	54·3	*	53·6	+0·9	2	0·30	− 0·70	*	*	*	*	* *
a Kilmarnock	70	28th	44	3rd	61·7	48·6	55·0	+ 4·8	91	0	*	*	*	*	*	*	0	0·00	—	*4·2*	—	*37*	—	*Kilmarnock.*
a Colmonell .. S	69	28th	39	3rd	65·0	48·1	56·3	+ 5·4	100	0	0	39	*	*	*	*	1	0·01	− 0·97	*	*	*	*	* *
p Dumfries .. S	73	28th	45	4th	62·0	49·7	55·7	+ 5·1	96	0	0	39	56·4	*	56·5	*	0	0·00	− 0·78	*2·8*	—	*25*	—	*Dumfries.*
p Cally, Gatehouse S	70	28th	48	4th	64·0	49·9	56·7	+ 6·8	103	0	*	*	*	*	*	*	1	0·01	− 0·99	*	*	*	*	* *
b I. OF MAN																								
p Douglas	65	28th	52	30, 1	61·1	53·4	57·1	+ 7·0	106	0	0	48	*	*	*	*	2	0·31	− 0·67	4·7	+ 0·8	41	+ 7	Douglas.
											0	43	55·6	+3·3	54·4	+1·4	—	—	—	*4·0*	—	*35*	—	*Burnley.*
7. a, ENGLAND, N.W.											0	41	*	*	*	*	—	—	—	3·8	—	33	—	Hoylake.
p Aspatria..	73	28th	45	4th	62·6	48·7	55·4	+ 5·0	94	0	0	41	55·3	*	54·0	*	0	0·00	− 0·90	4·6	—	41	—	Aspatria.
p Newton Rigg	70	28th	39	4th	60·6	46·3	53·2	+ 4·2	78	0	0	33	55·5	+1·8	54·5	+0·9	3	0·03	− 0·77	3·5	+ 0·2	31	+ 2	Newton Rigg.
p Stonyhurst	67	28th	51	28, 30, 4	62·1	52·4	57·1	+ 6·9	106	0	0	44	*	*	*	*	1	0·01	− 1·02	4·7	+ 1·2	41	+11	Stonyhurst.
p Blackpool	71	28th	48	30th	64·3	52·1	58·0	+ 5·9	112	0	0	34	57·0	*	55·3	*	2	0·17	− 0·65	4·4	+ 0·9	39	+ 8	Blackpool.
p Manchester (Whit. Pk.)	73	28th	52	29th	65·4	54·7	59·9	+ 8·5	125	0	*	*	*	*	*	*	1	0·03	− 0·66	*4·2*	*+ 1·4*	*37*	*+12*	*Whit. Park.*
a Liverpool (Bidston) ..	68	28th	52	29, 30	63·1	53·6	58·2	+ 6·0	113	0	*	*	*	*	*	*	0	0·00	− 0·72	*3·7*	—	*33*	—	*Liverpool.*
a Hawarden Bridge ..	70	28th	45	29th	64·9	52·7	58·6	+ 5·7	116	0	0	38	57·0	−0·3	57·2	+0·8	1	0·51	− 0·07	*4·2*	*+ 0·7*	*37*	*+ 6*	*Southport.*
											0	42	58·4	+3·7	59·3	+3·2	—	—	—	*4·4*	—	*39*	—	*Manchester* (*City*)
b, NORTH WALES.																								
p Llandudno	73	28th	53	30, 4	64·6	54·7	59·5	+ 6·2	123	0	*	*	*	*	*	*	3	0·14	− 0·57	3·2	− 0·3	28	− 3	Llandudno.
a Holyhead	68	28, 29	54	29th	63·3	55·9	59·5	+ 6·5	123	0	*	*	*	*	*	*	3	0·15	− 0·63	*4·4*	—	*39*	—	*Holyhead.*
p Bettws-y-Coed ..	70	28th	46	3rd	64·0	51·3	57·5	+ 4·9	109	0	0	46	56·0	+3·3	54·9	+1·6	2	0·21	—	2·1	—	18	—	Bettws-y-Coed.
											*	*	*	*	*	*	—	—	—	4·1	—	36	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.					
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	66	28th	46	4th	62·9	49·1	55·8	+ 5·6	97	0	0	41	56·0	+2·0	55·3	+1·2	2	0·58	—	4·0	—	35	—	Aberystwyth.
a Pembroke	69	28th	53	30, 1-3	64·7	54·4	59·4	+ 5·5	122	0	•	•	•	•	•	•	2	0·07	- 0·71	3·7	- 0·3	33	- 3	Pembroke.[Wells
p Cardiff	66	28th	53	4th	62·7	54·0	58·2	+ 6·2	113	0	0	45	58·3	+3·2	57·5	+1·0	3	0·37	- 0·58	*2·1*	—	*18*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	71	28th	51	4th	64·7	53·9	59·1	+ 6·3	120	0	0	46	•	•	•	•	3	0·54	- 0·19	*1·8*	—	*16*	—	*Clifton.*
a Shaftesbury	68	28th	51	4th	63·1	52·4	57·6	+ 5·6	109	0	•	•	58·6	•	58·2	•	3	0·15	- 0·56	•	•	•	•	Shaftesbury.
a Arlington	70	28th	47	3rd	64·1	52·1	57·9	+ 6·2	111	0	•	•	•	•	•	•	1	0·03	- 1·26	•	•	•	•	Arlington.
a Newquay	*68*	*28, 29*	*51*	*2nd*	*64·7*	*54·1*	*59·2*	+ *4·8*	*120*	*0*	•	•	59·5	•	•	•	*4*	*0·69*	- *0·07*	4·1	- 0·2	36	- 1	Newquay.
a Cullompton	72	28th	50	3, 4	64·7	52·1	58·2	+ 5·9	113	0	0	43	59·2	•	•	•	5	1·51	+ 0·79	1·1	- 2·6	10	-23	Cullompton.
a Portland	64	28, 30, 3	55	30, 1, 2	63·0	56·6	59·7	+ 4·8	124	0	•	•	•	•	•	•	3	0·53	—	*3·7*	—	*33*	—	*Weymouth.*
p Plymouth	71	28th	52	2nd	64·1	55·7	59·8	+ 5·7	125	0	0	45	59·9	+2·8	•	•	4	3·64	- 0·09	3·3	- 0·8	29	- 7	Plymouth.
a Falmouth	64	30, 4	51	2, 3	62·1	53·7	57·8	+ 3·6	111	0	•	•	•	•	•	•	3	1·39	+ 0·44	2·1	- 2·1	18	-19	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	64	28th	?	?	58·7	?	?	?	?	?	•	•	•	•	•	•	0	0·00	- 0·71	•	•	•	•	• •
a Blacksod Point ..	66	28th	47	3rd	61·1	51·1	56·0	+ 3·7	98	0	•	•	•	•	•	•	2	0·06	- 1·02	•	•	•	•	• •
p Markree Castle ..	70	28th	43	29th	64·4	48·9	56·4	+ 6·3	101	0	0	39	57·5	•	56·0	•	1	0·03	- 0·87	3·8	+ 0·6	33	+ 5	Markree Castle.
a Birr Castle ..	71	28th	49	30th	63·3	51·9	57·4	+ 6·9	108	0	•	•	•	•	•	•	1	0·06	- 0·55	*4·0*	+ *0·3*	*35*	+ *3*	*Birr Castle.*
b, East .. *p* Armagh	68	28th	48	1, 2	62·9	50·4	56·5	+ 6·0	102	0	0	38	56·2	+1·4	55·5	+0·3	3	0·10	- 0·50	3·1	- 0·2	27	- 2	Armagh.
a Donaghadee ..	62	28th	53	29th	59·0	54·4	56·6	+ 4·7	102	0	•	•	•	•	•	•	2	0·08	- 0·54	•	•	•	•	• •
											0	48	57·8	+2·7	56·6	+1·1	—	—	—	•	•	•	•	Trinity Coll.
											0	45	•	•	•	•	—	—	—	2·3	- 2·7	20	-15	Phœnix Park.
10. IRELAND, S.																								
a, East .. *p* Dublin, City	67	28th	55	29, 3, 4	61·3	55·6	58·4	+ 6·0	115	0	0	51	•	•	•	•	2	0·08	- 0·47	•	•	•	•	Dublin City.
a Kilkenny	70	29th	50	1, 4	64·0	52·3	58·0	+ 6·7	112	0	•	•	•	•	•	•	2	0 08	- 0·53	•	•	•	•	• •
a Waterford ..	70	29th	52	3, 4	64·4	54·1	59·1	+ 7·2	120	0	•	•	•	•	•	•	2	0·21	- 0·59	•	•	•	•	• •
a Carrick-on-Suir ..	*69*	*29th*	*50*	*1, 4*	*62·1*	*52·1*	*57·0*	—	*105*	*0*	0	45	•	•	•	•	*4*	*0·34*	—	*3·8*	—	*33*	—	*Carrick-on-Suir.*
a Birr Castle	71	28th	49	30th	63·3	51·9	57·4	+ 6·9	108	0	•	•	•	•	•	•	1	0·06	- 0·55	4·0	+ 0·3	35	+ 3	Birr Castle.
a Foynes	71	29th	47	4th	63·3	50·9	56·9	+ 4·7	104	0	•	•	•	•	•	•	3	1·11	+ 0·34	•	•	•	•	• •
b, West .. *a* Cahir	70	28th	48	4th	63·7	52·4	57·9	+ 5·6	111	0	•	•	•	•	•	•	0	0·00	—	•	•	•	•	• •
a Killarney	73	28, 29	48	1st	65·0	52·4	58·5	+ 6·4	116	0	•	•	•	•	•	•	3	2·42	+ 1·33	•	•	•	•	• •
a Valencia	70	29th	47	1st	63·3	51·7	57·3	+ 3·5	107	0	•	•	•	•	•	•	4	1·73	+ 0·63	4·7	+ 0·9	41	+ 8	Valencia.
a Roche's Point ..	67	29th	51	1st	62·4	54·7	58·4	+ 5·0	115	0	•	•	•	•	•	•	6	1·05	+ 0·25	3·7	—	33	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	64	2nd	54	3, 4	62·3	54·9	58·5	+ 2·6	116	0	•	•	•	•	•	•	3	0·35	- 0·37	2·9	- 1·5	25	-15	Scilly.
a Jersey, St. Aubins ..	76	29th	53	3rd	67·9	56·6	62·1	+ 5·0	141	0	•	•	•	•	•	•	6	0·13	- 0·68	3·8	- 1·2	33	-10	St. Heliers.
a Guernsey (Villa Carey)	72	29th	54	2, 3	66·1	55·9	60·9	+ 4·5	132	0	0	45	61·4	+2·6	60·9	+0·9	6	1·59	+ 0·74	4·2	- 0·4	37	- 4	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·0 hrs. 44 %; Ramsgate, 6·6 hrs. 58 %; Rhyl, 4·0 hrs. 35 %; Salcombe, 2·4 hrs. 21 %; Tenby, 3·7 hrs. (−0·5) 33 %(−4); Torquay, 2·0 hrs. (−2·4) 18 %(−21).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, October 4th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	53	53	53·0	+1·9	SCOTLAND, W. ..	Lamlash	56	53	54·5	+0·6
	Kirkwall	54	53	53·9	+2·8		Ballantrae	56	52	53·9	+0·7
	Wick	54	52	53·2	+1·1	ENGLAND, N.W. ..	Port Erin	58	56	56·5	+1·1
	Cromarty	55	52	54·0	+1·0		Newquay	59	59	59·0	+0·4
SCOTLAND, E. ..	Pennan Bay	56	54	55·3	+2·9	ENGLAND, S.W. ..	Scilly	60	58	58·8	—
	Aberdeen, Cove Bay	55	55	55·0	+3·0		Plymouth‡	61	60	60·5	+3·1
ENGLAND, N.E. ..	Burnmouth, Berwick	53	52	52·3	+0·5		Salcombe	62	59	60·2	+1·8
	Scarborough	56	52	54·6	+1·4		Sheephaven	57	55	56·2	+0·4
ENGLAND, E. ..	Shipwash Lightship	63	61	61·7	+2·7	IRELAND, N.W. ..	Teelin	60	57	58·3	+2·0
ENGLAND, S.E. ..	Eastbourne‡	62	61	61·6	+2·4		Cleggan	58	55	57·1	+2·4
						IRELAND, S.W. ..	Seafield	60	58	59·5	+3·3

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTIETH WEEK—September 28th to October 4th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	70	37	57·9	45·5	51·5	+ 3·4	67	+ 20	0	− 3	1	− 4	0·04	−1·33	3·5	+0·8	31	+ 7
Eastern.																		
1. SCOTLAND, EAST ...	72	35	58·2	46·6	52·2	+ 3·7	71	+ 20	0	− 4	1	− 4	0·13	−0·63	2·4	−0·8	21	− 7
2. ENGLAND, N.E.	72	41	61·3	52·4	56·7	+ 6·3	103	+ 42	0	− 2	3	− 1	0·34	−0·19	3·4	−0·3	30	− 2
3. ENGLAND, EAST ...	72	46	64·9	53·1	58·8	+ 7·3	118	+ 49	0	− 2	3	− 1	0·26	−0·32	5·4	+1·5	47	+13
4. MIDLAND COUNTIES ...	74	45	63·8	51·6	57·5	+ 7·2	109	+ 47	0	− 3	3	− 1	0·74	+0·12	2·8	−0·7	25	− 6
5. ENGLAND, S.E.	73	45	65·5	53·4	59·2	+ 6·3	120	+ 42	0	− 1	3	− 1	0·30	−0·40	5·1	+1·2	45	+11
Western.																		
6. SCOTLAND, WEST ...	73	39	61·8	50·1	55·8	+ 5·9	97	+ 40	0	− 2	1	− 4	0·08	−1·12	3·4	+0·2	29	+ 2
7. ENGLAND, N.W.	73	39	63·5	52·2	57·7	+ 6·6	110	+ 45	0	− 1	1	− 3	0·13	−0·80	3·8	+0·6	33	+ 5
8. ENGLAND, S.W.	72	46	63·6	53·4	58·4	+ 6·0	115	+ 41	0	0	3	− 2	0·58	−0·42	3·0	−0·8	26	− 7
9. IRELAND, NORTH ...	71	43	62·1	51·3	56·6	+ 6·3	102	+ 43	0	− 1	2	− 3	0·06	−0·86	3·5	+0·4	30	+ 4
10. IRELAND, SOUTH ...	73	47	63·4	52·9	58·0	+ 6·4	112	+ 44	0	− 1	3	− 1	0·75	−0·03	3·7	−0·1	32	− 1
11. ENGLISH CHANNEL ...	76	53	65·4	55·8	60·5	+ 4·8	130	+ 34	0	0	5	+ 1	0·69	−0·16	3·6	−0·9	37	− 3

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 5 Weeks, August 31st to October 4th, 1913.

0. SCOTLAND, NORTH ...	71	33	*	*	*	*	354	+ 33	0	− 6	17	− 7	2·45	−3·14	2·9	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	74	28	*	*	*	*	365	+ 20	0	− 8	15	− 5	2·75	−0·18	2·4	−1·4	19	−12
2. ENGLAND, N.E.	79	35	*	*	*	*	507	+100	0	− 2	18	+ 1	2·57	+0·23	3·8	−0·5	30	− 4
3. ENGLAND, EAST ...	76	37	*	*	*	*	573	+112	0	− 3	16	0	2·21	−0·19	4·4	−0·4	36	− 3
4. MIDLAND COUNTIES ...	79	35	*	*	*	*	528	+106	0	− 5	16	0	3·02	+0·51	3·3	−0·9	27	− 7
5. ENGLAND, S.E.	76	38	*	*	*	*	583	+ 80	0	− 1	16	0	3·52	+0·72	4·5	−0·4	37	− 3
Western.																		
6. SCOTLAND, WEST ...	73	31	*	*	*	*	435	+ 60	0	− 3	13	− 7	2·83	−2·16	2·8	−1·2	23	−10
7. ENGLAND, N.W.	79	32	*	*	*	*	522	+ 96	0	− 1	12	− 6	2·71	−0·97	3·8	−0·3	31	− 2
8. ENGLAND, S.W.	78	36	*	*	*	*	550	+ 81	0	0	17	− 2	4·15	+0·29	3·4	−1·2	28	−10
9. IRELAND, NORTH ...	71	35	*	*	*	*	462	+ 68	0	− 1	20	− 2	3·55	−0·32	3·2	−0·4	26	− 4
10. IRELAND, SOUTH ...	73	35	*	*	*	*	514	+ 78	0	− 1	21	+ 2	4·77	+1·33	3·4	−0·9	28	− 6
11. ENGLISH CHANNEL ...	77	47	*	*	*	*	639	+ 67	0	0	17	− 2	2·62	−0·62	5·1	−0·6	42	− 5

THE YEAR.—Aggregates, &c., for the Period of 40 Weeks, December 29th, 1912, to October 4th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,885	+ 10	424	−139	166	−18	31·16	−5·84	3·2	−0·4	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	2,036	− 79	601	− 27	144	− 9	20·13	−2·37	3·7	−0·5	27	− 5
2. ENGLAND, N.E.	82	18	*	*	*	*	2,437	+ 80	406	− 71	136	− 1	16·89	−0·91	3·8	−0·8	29	− 6
3. ENGLAND, EAST ...	84	20	*	*	*	*	2,809	+ 88	303	−221	129	− 3	15·22	−2·09	4·3	−0·7	33	− 5
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,706	+ 48	392	−146	131	0	19·95	+0·68	3·6	−0·8	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	2,928	+ 6	221	−161	125	− 1	18·75	−0·16	4·5	−0·6	34	− 5
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,292	+ 14	323	−105	151	− 9	29·63	−4·21	3·8	−0·6	29	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,533	+ 40	298	− 89	145	− 1	25·02	+0·13	4·1	−0·3	31	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	2,797	+ 36	221	− 80	147	+ 3	27·95	+1·44	4·3	−0·6	33	− 5
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,332	− 49	297	− 49	172	− 2	27·74	+0·01	3·7	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,702	− 20	243	− 17	173	+19	32·30	+3·68	4·0	−0·5	31	− 4
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,174	+ 16	38	− 71	145	− 7	20·89	−1·03	5·0	−1·0	38	− 8

M.O., October 8, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 9, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 41. FORTY-FIRST WEEK, SUNDAY, OCTOBER 5TH, TO SATURDAY, OCTOBER 11TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather was generally unsettled, with frequent rain in all parts of the Kingdom except the north and west of Scotland and the north of Ireland, where the conditions were mostly dry. Thunderstorms were experienced in some parts of England on the 5th, and over a large area on the 7th and 8th.

Temperature was above the average in England and Ireland, but only equal to it in Scotland West, and rather below it in Scotland North and East. In England East and South-East the excess exceeded 3°. The highest of the maxima occurred mostly between the 5th and 7th in the English districts, but later in Ireland and Scotland, and ranged from 65° in England South-West and Ireland South to 57° in Scotland East. The lowest of the minima, which were registered on irregular dates, ranged from 28° in Scotland East (at West Linton on the 10th) and 30° in Scotland North to 39° in England South-West and Ireland North, and to 48° in the English Channel. The lowest grass minima were 22° at West Linton, 27° at Durham and Hull, and 28° at Balmoral, Rounton and Harrogate. As a rule the temperature of the soil was above the normal at a depth of 1 foot and also at 4 feet, but in a few localities it was slightly below normal it at the former depth.

Mean Temperature of the Sea. On all parts of the coast the water was warmer than during the corresponding week of last year, the difference at Eastbourne being more than 6°, and at Seafield 5°·5. Except on the north-east coast of England and at a few places in the north-west its temperature was above the normal, the excess amounting to nearly 4° at Cleggan.

Rainfall was less than the normal in Scotland, Ireland North and England North-West, considerably more in all other districts. At Fort William and Stornoway there was no rain, and at Kilmarnock only 0·01 in. In several parts of England and Ireland falls of an inch or more within 24 hours were registered. On the 5th there was about 1·15 in. at Nottingham and Shrewsbury, 1·42 in. at Dublin, 1·75 in. at Little Massingham, 2·21 in. at Fulbeck and 2·57 in. at Rauceby; on the 6th 1·26 in. at Bognor, 1·25 in. at Portland Bill; and on the 7th 1·07 in. at West Witton and 1·51 in. at Durham. At Belvoir Castle 1·77 in. fell between 6 p.m. October 5th and 1 p.m. October 6th; and at Hexham 1·18 in. was measured at 9 a.m. on the 8th, an additional 1·30 in. at 1 p.m. on the same day and 1·36 in. at 4 p.m.

Bright Sunshine was above the average in Scotland, England South-West and the English Channel, but below it elsewhere. In the English Channel the daily mean was 5·3 hours and in Scotland North 4·6 hours, the percentage of the possible amount being respectively 48 and 43. In the Midland Counties the daily mean was no more than 1·8 hour, and the percentage 16.

Barometer and Wind. Cyclonic disturbances appearing over the south-west of these Islands and moving eastwards or north-eastwards maintained the general current of the wind between South and East, and caused its force to vary considerably. As a rule it was no stronger than a fresh breeze, but a gale was experienced on a few exposed parts of the southern coasts during the first half of the week, and on several parts of the western and south-western coasts on Friday. The main direction of the wind was between East and South-East.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 163.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Very light	Moderate	Very heavy	Heavy	Very heavy	Heavy	Light	Moderate	Heavy	Moderate	Heavy	Moderate
	Sunshine ...	Very abundant	Abundant	Scanty	Moderate	Scanty	Scanty	Moderate	Scanty	Moderate	Moderate	Scanty	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 6 weeks from Aug. 31st, 1913.	Warmth ...	2 * 0	2 * 0	3 * 0	4 * 0	4 * 0	4 * 0	2 * 0	4 * 0	4 * 0	3 * 0	4 * 1	4 * 0
	Rainfall ...	0 * 4	2 * 2	3 * 1	3 * 3	3 * 0	3 * 3	1 * 3	2 * 3	2 * 2	2 * 2	4 * 1	1 * 1
	Sunshine ...	3 * 2	1 * 5	1 * 3	1 * 1	0 * 3	2 * 2	0 * 3	2 * 3	0 * 4	0 * 3	0 * 4	1 * 3

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(32096—24.) Wt. 196—786. 450. 10/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*51*	*10th*	*34*	*7th*	*49·8*	*39·3*	*44·4*	—	*28*	*8*	•	•	46·6	•	•	•	*7*	*0·13*	—	3·7	—	*36*	—	*Baltasound.*
a Islands .. *p* Lerwick	50	7, 10, 11	39	7th	49·4	42·0	45·6	- 1·0	25	0	•	•	•	•	•	•	3	0·06	—	4·0	+ 1·2	38	+11	Deerness.
a Stornoway	57	11th	37	7th	53·4	41·1	47·1	0·0	39	3	•	•	•	•	•	•	0	0·00	- 1·25	6·6	+ 3·7	62	+35	Stornoway.
a Castlebay, Barra Isd.‡ ..	*54*	*5, 8, 10*	*44*	*8th*	*53·3*	*46·4*	*49·8*	+ *0·7*	*55*	*0*	•	•	•	•	•	•	*3*	*0·15*	—	6·7	—	*63*	—	*Castlebay.*
a Wick	57	10th	34	7, 8	51·6	40·4	45·8	- 1·8	33	4	•	•	•	•	•	•	4	0·22	- 0·47	•	•	•	•	
p Strathpeffer ..	58	6th	36	7th	54·0	39·3	46·4	- 0·4	42	8	•	•	•	•	•	•	3	0·08	- 0·56	3·8	+ 0·7	36	+ 7	Strathpeffer.
b Main- *p* Glencarron ..	55	11th	34	7th	51·7	39·4	45·4	- 0·5	37	5	•	•	•	•	•	•	1	0·04	- 2·06	•	•	•	•	
land. *p* Fort Augustus..	57	10th	30	10th	52·7	40·0	46·2	- 1·4	38	6	•	•	•	•	•	•	2	0·03	- 0·92	4·0	+ 1·9	37	+17	Fort Augustus.
p Fort William ..	56	7, 10, 11	33	10th	53·7	38·6	45·9	- 2·9	42	10	•	•	•	•	•	•	0	0·00	- 1·76	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	55	7, 8	32	6, 9	53·3	36·7	44·8	- 3·6	42	15	1	29	51·0	+0·2	53·2	+1·0	—	—	—	2·7	—	25	—	Crathes S.
a Nairn	55	10th	33	7, 8	52·1	36·6	44·1	- 3·4	37	15	•	•	•	•	•	•	4	0·19	- 0·56	*4·0*	—	*37*	—	*Gordon Castle*
a Aberdeen	55	6, 10	40	9th	53·4	42·7	47·9	- 0·4	41	0	•	•	•	•	52·2	+1·1	3	0·36	- 0·17	3·9	—	36	—	Nairn.
a Balmoral	53	9th	31	9th	50·0	37·7	43·7	- 0·8	30	12	2	28	•	•	•	•	7	0·69	+ 0·04	3·5	+ 0·1	33	+ 1	Aberdeen.
p Crieff	57	9th	34	10th	52·4	40·0	46·0	- 2·2	36	6	•	•	•	•	•	•	6	0·55	- 0·26	•	•	•	•	Balmoral.
a Leith	56	9, 10	38	7, 10, 11	54·1	41·9	47·8	- 2·0	41	0	•	•	•	•	•	•	5	0·37	- 0·10	4·4	—	41	—	Balruddery.
p West Linton .. S	54	11th	28	10th	51·0	36·4	43·5	- 3·1	34	16	3	22	•	•	•	•	5	0·90	—	•	•	•	•	
p Marchmont .. S	53	6, 10	35	10th	51·3	40·6	45·8	- 1·6	32	4	?	?	50·1	-0·2	•	•	*4·2*	—	—	3·5	+ 0·5	*39*	—	*West Linton.*
																	4	0·89	+ 0·10			33	+ 4	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	55	7th	34	10th	53·3	44·1	48·6	+ 1·0	46	0	1	30	49·1	-1·1	52·8	+1·4	6	0·61	- 0·19	3·0	—	28	—	Cockle Park.
a Shields	55	7, 9, 10	37	10, 11	54·3	46·3	50·2	+ 1·0	57	0	•	•	•	•	•	•	5	1·16	+ 0·50	•	•	•	•	
p Durham	55	9th	31	10th	52·7	42·1	47·2	- 1·4	36	0	1	27	•	•	•	•	5	1·88	+ 1·20	1·8	- 1·3	17	-12	Durham.
a, North .. *p* Rounton	57	7, 8	32	10th	55·0	42·7	48·7	+ 0·6	47	0	1	28	53·1	•	•	•	4	1·52	+ 0·88	•	•	•	•	Rounton.
a West Witton	*56*	*9th*	*35*	*10th*	*52·6*	*43·7*	*48·0*	—	*42*	*0*	1	29	51·2	•	52·8	•	*5*	*1·48*	—	•	•	•	•	*West Witton.*
p Scarborough	58	8th	42	10th	55·6	48·9	52·2	+ 2·1	71	0	•	•	•	•	56·0†	•	4	1·03	+ 0·33	2·6	—	24	—	Scarborough.
p York	61	8th	36	10th	57·1	46·4	51·6	+ 1·8	67	0	•	•	54·8	+1·1	55·9	+1·4	4	0·89	+ 0·31	2·8	- 0·2	26	- 2	York.
											1	27	52·6	+0·7	55·0	+1·1	—	—	—	*1·2*	—	*11*	—	*Hull.*
a Spurn Head	63	5th	42	11th	?58·1	47·9	?52·9	+ 1·8	76	0	•	•	•	•	•	•	6	1·09	+ 0·59	*1·8*	—	*17*	—	*Spurn Head.*
b, South .. *a* Lincoln	61	5th	40	10th	57·4	47·7	52·4	+ 2·8	73	0	•	•	•	•	•	•	4	2·06	+ 1·50	•	•	•	•	Lincoln.
a Fulbeck	61	5th	40	9th	56·7	46·6	51·5	+ 2·1	67	0	•	•	53·8	+0·6	56·7	+2·1	4	3·54	+ 3·00	2·4	—	22	—	Rauceby.
											0	36	55·1	+2·1	56·2	+1·1	4	3·54	+ 3·00	3·2	—	29	—	Skegness.
											•	•	•	•	•	•	—	—	—	*2·9*	—	*27*	—	*Lowestoft.*
											0	38	56·0	+0·5	58·0	+1·3	—	—	—	3·0	—	28	—	Cromer.
3. ENGLAND, E.																								
p Cromer	62	8th	46	10th	58·4	50·1	54·1	+ 3·3	85	0	•	•	•	•	•	•	6	0·98	—	3·5	—	32	—	Lit. Massingham.
p Little Massingham ..	61	5, 8	43	10th	57·6	46·3	51·8	+ 1·7	69	0	0	37	•	•	•	•	3	2·56	+ 1·88	2·7	—	25	—	Yarmouth.
a, North .. *a* Yarmouth	62	5th	43	10th	58·6	49·4	53·9	+ 2·7	83	0	•	•	58·0	+2·3	57·0	0·0	5	1·15	+ 0·50	2·7	—	*25*	—	*Norwich.*
a Norwich	61	5th	37	10th	58·3	46·9	52·4	+ 1·1	73	0	0	32	54·5	•	•	•	5	1·27	—	2·7	—	24	—	Geldeston.
p Geldeston	63	5th	37	10th	59·6	46·6	52·9	+ 2·3	76	0	•	•	•	•	•	•	6	1·32	+ 0·69	2·6	- 1·3	24	-12	
											0	35	52·3	+0·1	54·5	+1·1	—	—	—	*2·1*	—	*19*	—	*Huddersfield.*
p Cambridge	62	6th	37	10th	59·7	46·3	52·8	+ 2·5	76	0	0	33	55·5	+1·0	57·6	+1·1	4	0·99	+ 0·48	3·6	- 0·2	33	- 2	Cambridge.
a Felixstowe	*63*	*5th*	*41*	*10th*	*59·9*	*50·6*	*55·1*	+ *3·3*	*92*	*0*	•	•	•	•	•	•	*5*	*1·25*	—	*4·5*	—	*41*	—	*Felixstowe.*
a Clacton-on-Sea ..	62	5, 6	44	10th	59·1	49·4	54·1	+ 2·3	85	0	0	36	56·9	+0·6	58·7	+1·8	5	1·20	—	3·7	—	34	—	Clacton.
b, South .. *a* Rothamsted ..	60	6th	39	10th	58·0	45·9	51·8	+ 2·4	69	0	•	•	•	•	•	•	5	1·22	+ 0·56	3·1	- 0·7	28	- 6	Rothamsted.
a Shoeburyness	*62*	*5, 6*	*44*	*10th*	*60·3*	*47·6*	*53·8*	+ *1·2*	*83*	*0*	0	38	57·9	+0·4	•	•	*5*	*1·59*	+ *1·12*	*3·9*	—	*36*	—	*Southend.*
p Tottenham	60	6, 7, 9	46	6th	57·0	48·6	52·7	+ 2·3	75	0	0	37	•	•	59·2	+1·3	4	1·18	—	2·6	—	24	—	Tottenham.
											0	35	52·3	+0·1	54·5	+1·1	—	—	—	*2·1*	—	*19*	—	*Huddersfield.*
4. MIDLAND COUNTIES.																								
a Harrogate	57	8th	36	10th	53·3	43·9	48·5	+ 0·2	46	0	1	28	52·6	+1·0	54·2	+2·0	6	1·48	+ 0·77	2·3	—	21	—	Harrogate.
a Bawtry	59	10th	35	10th	55·3	45·1	50·1	+ 1·1	57	0	1	31	54·3	•	55·3	•	6	1·64	+ 1·10	2·3	- 0·6	21	- 6	Worksop.
p Buxton	*57*	*5th*	*40*	*10th*	*52·3*	*43·7*	*47·9*	+ *1·3*	*41*	*0*	0	36	52·9	+0·7	54·3	+1·6	*6*	*1·46*	+ *0·39*	*1·1*	—	*10*	—	*Buxton.*
a, East .. *a* Nottingham	57	5, 8, 10	44	11th	55·7	48·1	51·8	+ 2·0	69	0	0	38	53·6	+0·7	56·8	+1·6	4	2·79	+ 2·25	1·8	—	17	—	Nottingham.
p Birmingham, Edgbsn.	58	6th	45	10th	54·9	48·3	51·5	+ 2·3	67	0	0	38	52·4	+0·7	53·3	+0·7	4	1·88	+ 1·30	0·7	—	6	—	Birmingham.
a Raunds	64	6th	38	10th	59·6	46·6	52·9	+ 3·1	76	0	1	30	55·9	•	56·1	•	4	1·47	—	•	•	•	•	Raunds.
p Oxford	63	6th	43	10th	58·1	48·1	53·0	+ 2·7	77	0	0	36	•	•	•	•	5	1·08	+ 0·49	2·2	- 1·4	20	-13	Oxford.
											0	42	53·1	+0·4	54·3	+0·8	—	—	—	1·6	—	15	—	Sheffield.
a Cheadle	56	9th	43	9, 10	53·4	46·4	49·8	+ 1·6	55	0	0	40	•	•	•	•	5	2·19	+ 1·49	•	•	•	•	Cheadle.
p Shrewsbury	59	9th	43	10th	55·4	46·7	50·9	+ 0·7	62	0	0	36	•	•	•	•	6	1·72	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	57	6, 9	44	6th	55·6	47·6	51·5	+ 1·3	67	0	0	39	•	•	•	•	6	1·40	+ 0·83	•	•	•	•	Hereford.
a Cirencester	58	6, 7	38	6th	55·3	47·1	51·1	+ 1·8	64	0	0	38	54·8	•	55·2	•	7	1·14	+ 0·47	1·1	- 2·4	10	-22	Cirencester.
a Bath	62	7th	40	6th	60·7	46·9	53·6	+ 2·1	81	0	•	•	56·4	-0·1	58·9	+1·0	6	1·66	+ 1·00	2·0	—	18	—	Bath.
											0	33	56·4	+1·2	57·8	+1·1	—	—	—	•	•	•	•	Canterbury.
5. ENGLAND, S.E.																								
p Kew	61	6, 7	44	6th	58·7	48·6	53·5	+ 2·6	81	0	0	35	55·4	-0·1	56·7	+0·8	5	1·36	+ 0·78	2·3	- 1·1	21	-10	Kew.
a Marlborough	59	7th	37	6th	57·4	46·4	51·7	+ 2·9	68	0	0	32	56·1	•	•	•	4	1·06	+ 0·41	1·9	- 1·4	17	-13	Marlborough.
a Margate	62	5, 6	44	10th	59·9	50·1	54·9	+ 2·2	90	0	0	35	56·0	+1·4	56·3	+0·2	5	1·46	+ 0·89	4·2	+ 1·4	39	+ 4	Margate.
a Wisley, Surrey ..	61	7th	40	6th	5 ·6	46·9	52·6	+ 1·2	74	0	0	31	55·5	+0·7	56·7	+0·3	4	1·34	—	2·1	—	19	—	Wisley.
											0	43	57·4	+1·0	58·9	+1·7	—	—	—	2·3	—	21	—	Worthing.
p Salisbury (Wilton) ..	62	7th	37	6th	59·3	45·9	52·4	+ 2·0	73	0	0	36	56·4	•	•	•	6	1·77	+ 1·01	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	63	5th	47	6th	60·3	52·1	56·1	+ 2·8	99	0	•	•	•	•	•	•	5	1·71	+ 1·06	3·9	—	36	—	Littlestone.
p Hastings..	62	6th	48	6, 9	59·6	50·7	55·0	+ 2·1	91	0	0	40	57·5	•	58·7	•	6	2·67	+ 1·85	*2·9*	- *1·3*	*26*	-*12*	*Hastings.*
p Southampton	62	7th	44	6th	59·7	49·1	54·2	+ 1·8	85	0	0	40	•	•	•	•	6	1·97	+ 1·23	1·7	- 2·3	16	-21	Southampton.
a Ventnor	63	9th	51	6th	60·6	53·7	57·1	+ 2·8	106	0	0	40	56·9	+0·7	58·6	+0·6	6	0·89	+ 0·31	2·6	- 1·7	24	-16	Ventnor.
											•	•	58·2	•	59·2	•	—	—	—	*2·1*	—	*19*	—	*Portsmouth.*
											•	•	56·5	•	58·0	•	—	—	—	2·9	- 1·2	26	-11	Eastbourne.
											•	•	•	•	59·8	•	—	—	—	*3·2*	—	*29*	—	*Bournemouth.*
LONDON,											0	43	•	•	•	•	—	—	—	*2·3*	- *1·4*	*26*	-*13*	*Brighton.*
a Westminster	*64*	*6th*	*44*	*6th*	*60·3*	*50·1*	*55·1*	+ *4·5*	*92*	*0*	0	41	•	•	•	•	*4*	*1·16*	+ *0·59*	*2·3*	- *0·2*	*31*	- *2*	*Westminster.*
a Greenwich	*63*	*6, 7*	*42*	*10th*	*60·4*	*46·9*	*53·5*	+ *1·9*	*81*	*0*	1	30	•	•	•	•	*5*	*1·28*	+ *0·75*	*3·0*	- *0·5*	*28*	- *5*	*Greenwich.*
a Hampstead	*61*	*6th*	*44*	*11th*	*57·7*	*47·6*	*52·5*	—	*74*	*0*	0	31	•	•	•	•	*4*	*1·12*	—	*2·6*	—	*24*	—	*Hampstead.*
a Camden Square ..	*66*	*6th*	*43*	*6, 10*	*61·1*	*47·3*	*54·0*	—	*84*	*0*	0	41	•	•	•	•	*5*	*1·16*	—	*1·9*	—	*17*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	58	9th	31	9th	55·4	38·4	46·7	- 2·2	48	10	•	•	•	•	•	•	2	0·03	- 1·11	•	•	•	•	
p Glasgow .. S	54	6, 10	38	10th	52·3	42·9	47·5	- 0·7	39	0	2	29	•	•	•	•	3	0·10	- 0·67	4·3	+ 1·8	40	+17	Glasgow.
p Rothesay .. S	58	5th	35	9th	53·6	43·0	48·1	- 1·1	43	0	0	31	50·3	•	52·8	+0·6	3	0·16	- 0·83	•	•	•	•	
a Kilmarnock ..	57	6th	31	7th	55·0	39·7	47·1	- 1·5	45	6	•	•	•	•	•	•	1	0·01	—	*3·9*	—	*36*	—	*Kilmarnock.*
a Colmonell ..	61	9th	35	9th	58·6	41·1	49·6	+ 0·5	57	3	0	31	•	•	•	•	3	0·15	- 0·85	•	•	•	•	
p Dumfries	57	9th	36	10th	54·1	41·1	47·4	- 1·4	42	3	1	29	51·6	•	55·4	•	6	0·63	- 0·17	*3·0*	—	*28*	—	*Dumfries.*
p Cally, Gatehouse	59	9th	39	9th	55·4	42·1	48·6	+ 0·5	46	0	•	•	•	•	•	•	4	0·53	- 0·54	•	•	•	•	
b I. OF MAN																								
p Douglas	57	8th	46	9th	55·6	47·9	51·6	+ 1·7	67	0	0	41	•	•	•	•	4	0·57	- 0·46	2·4	- 1·2	22	-11	Douglas.
											0	32	52·2	+0·7	54·2	+1·5	—	—	—	*1·5*	—	*14*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											0	42	•	•	•	•	—	—	—	1·8	—	17	—	Hoylake.
p Aspatria	56	10th	38	7, 9, 10	54·4	40·9	47·5	- 1·3	43	3	0	33	51·3	•	53·8	•	2	0·31	- 0·59	4·1	—	38	—	Aspatria.
p Newton Rigg	55	6, 7, 9	37	10th	53·6	41·9	47·6	+ 0·1	40	0	2	29	52·1	-0·4	53·6	+0·6	4	0·95	+ 0·10	2·9	- 0·1	27	- 1	Newton Rigg.
p Stonyhurst	59	8th	42	9th	54·6	45·9	50·1	+ 1·7	57	0	0	35	•	•	•	•	3	0·67	- 0·38	1·1	- 2·0	10	-19	Stonyhurst.
p Blackpool	61	9th	41	9th	55·9	45·4	50·5	+ 0·2	60	0	0	32	54·2	•	55·1	•	6	1·10	+ 0·25	1·8	- 1·5	17	-14	Blackpool.
p Manchester (Whit. Pk.)	60	8th	47	7, 8	55·9	48·4	52·0	+ 2·5	70	0	•	•	•	•	•	•	5	0·50	- 0·20	*0·8*	- *1·7*	*7*	-*15*	*Whit. Park.*
a Liverpool (Bidston) ..	58	8, 9	46	11th	55·3	48·3	51·7	+ 0·8	68	0	•	•	•	•	•	•	6	0·68	- 0·07	*1·9*	—	*17*	—	*Liverpool.*
a Hawarden Bridge ..	60	9th	45	10th	55·9	48·1	51·9	+ 0·7	69	0	0	35	51·7	-1·4	55·8	+0·4	6	0·67	+ 0·02	*1·2*	- *1·9*	*11*	-*18*	*Southport.*
											0	41	54·4	+1·1	58·6	+3·0	—	—	—	*1·0*	—	*9*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	59	5th	46	10th	56·4	48·4	52·3	+ 0·7	72	0	•	•	•	•	•	•	6	0·75	- 0·04	2·1	- 1·1	19	-10	Llandudno.
a Holyhead	60	9th	48	10, 11	56·6	50·7	53·6	+ 1·8	81	0	•	•	•	•	•	•	5	0·90	+ 0·06	*2·0*	—	*18*	—	*Holyhead.*
p Bettws-y-Coed ..	63	8th	48	6, 7	58·1	49·7	53·8	+ 2·9	83	0	0	43	52·9	+1·3	53·4	+0·5	5	1·18	—	1·4	—	13	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	2·3	—	21	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				2·4	—	22	—	Aberystwyth.
a Llangammarch Wells	60	6th	42	10th	55·6	46·9	51·1	+ 2·7	64	0	0	35	53·5	+0·5	55·0	+1·2	6	1·83	—	1·3	—	12	—	Llangammarch
a Pembroke	61	9th	47	6th	59·1	51·0	54·9	+ 2·3	90	0	•	•	•	•	•	•	4	1·12	+ 0·29	4·0	+ 0·3	37	+ 3	Pembroke.[Wells
p Cardiff	60	5th	40	6th	58·4	47·7	52·9	+ 2·7	76	0	0	34	55·4	+1·0	57·2	+1·3	4	2·51	+ 1·50	*3·0*	—	*28*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	60	5-7	44	6th	59·0	49·9	54·3	+ 3·7	86	0	0	41	•	•	•	•	5	1·23	+ 0·43	*2·5*	—	*23*	—	*Clifton.*
a Shaftesbury	61	9th	45	6th	57·1	47·3	52·1	+ 2·0	71	0	•	•	54·8	•	57·7	•	5	1·70	+ 0·94	•	•	•	•	Shaftesbury.
a Arlington	60	5, 6, 9	41	6th	58·7	47·1	52·7	+ 2·9	75	0	•	•	•	•	•	•	6	1·86	+ 0·46	•	•	•	•	Arlington.
a Newquay	*62*	*9th*	*43*	*6th*	*59·0*	*49·9*	*54·3*	+ *1·0*	*86*	*0*	•	•	56·6	•	•	•	*4*	*1·98*	+ *1·21*	4·0	+ 0·1	36	+ 1	Newquay.
a Cullompton	65	9th	39	6th	61·0	46·6	53·6	+ 3·0	81	0	0	35	56·0	•	•	•	5	1·65	+ 0·86	3·6	+ 0·2	33	+ 2	Cullompton.
a Portland	61	7, 8, 9	52	6th	60·1	54·1	57·0	+ 3·4	105	0	•	•	•	•	•	•	3	1·49	—	*5·0*	—	*46*	—	*Weymouth.*
p Plymouth	63	9, 11	47	6th	61·0	50·0	55·3	+ 2·7	93	0	0	37	56·6	+0·5	•	•	6	0·99	+ 0·19	5·2	+ 1·5	47	+13	Plymouth.
a Falmouth	62	11th	45	9th	59·6	48·0	53·6	+ 0·7	81	0	0	37	•	•	•	•	4	1·80	+ 0·78	5·2	+ 1·3	47	+12	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	56	10th	41	8th	54·3	?45·6	?49·8	- 0·4	55	0	•	•	•	•	•	•	3	0·13	- 0·59	•	•	•	•	• •
a Blacksod Point ..	59	11th	39	9th	57·0	46·0	51·3	+ 0·1	65	0	•	•	•	•	•	•	2	0·95	- 0·17	•	•	•	•	• •
p Markree Castle ..	61	11th	40	7th	58·4	44·9	51·5	+ 2·9	67	0	1	30	54·7	•	55·8	•	2	0·50	- 0·41	4·2	+ 1·2	39	+11	Markree Castle.
a Birr Castle	62	11th	40	9th	57·4	45·1	51·1	+ 2·5	64	0	•	•	•	•	•	•	4	1·59	+ 0·96	*2·4*	- *1·0*	*22*	-*10*	*Birr Castle.*
b, East .. *p* Armagh	58	9th	40	7th	55·1	44·6	49·7	+ 0·9	54	0	0	31	53·8	+0·4	55·0	+0·4	4	0·62	+ 0·02	1·3	- 1·8	12	-17	Armagh.
a Donaghadee	56	8-11	45	10th	55·6	49·4	52·4	+ 2·2	73	0	•	•	•	•	•	•	3	0·30	- 0·32	•	•	•	•	• •
											0	41	54·9	+0·8	56·1	+1·1	—	—	—	•	•	•	•	Trinity Coll.
											0	38	•	•	•	•	—	—	—	1·3	- 2·4	12	-22	Phœnix Park.
10. IRELAND, S.																								
a, East .. *p* Dublin, City	59	11th	48	8, 9, 10	55·7	49·3	52·4	+ 1·5	73	0	0	44	•	•	•	•	5	2·15	+ 1·58	•	•	•	•	Dublin City.
a Kilkenny	64	11th	47	8, 9	57·6	49·1	53·2	+ 3·4	78	0	•	•	•	•	•	•	5	0·88	+ 0·23	•	•	•	•	• •
a Waterford	62	11th	40	9th	58·0	48·0	52·9	+ 2·4	76	0	•	•	•	•	•	•	4	1·00	+ 0·18	•	•	•	•	• •
a Carrick-on-Suir ..	*62*	*11th*	*40*	*9th*	*55·6*	*46·9*	*51·1*	—	*64*	*0*	*0*	*31*	•	•	•	•	*5*	*1·09*	—	*2·4*	—	*22*	—	*Carrick-on-Suir.*
b, West .. *a* Birr Castle	62	11th	40	9th	57·4	45·1	51·1	+ 2·5	64	0	•	•	•	•	•	•	4	1·59	+ 0·96	2·4	- 1·0	22	-10	Birr Castle.
a Foynes	60	10th	38	8th	55·7	46·1	50·8	0·0	62	0	•	•	•	•	•	•	4	1·29	+ 0·47	•	•	•	•	• •
a Cahir	63	11th	42	8th	57·4	48·7	52·9	+ 2·2	76	0	•	•	•	•	•	•	5	0·98	—	•	•	•	•	• •
a Killarney	65	11th	39	9th	59·1	45·4	52·1	+ 1·3	71	0	•	•	•	•	•	•	4	1·29	+ 0·12	•	•	•	•	• •
a Valencia	63	9th	40	9th	58·6	47·0	52·6	- 0·1	74	0	•	•	•	•	•	•	4	1·50	+ 0·35	3·6	+ 0·1	33	+ 1	Valencia.
a Roche's Point	61	11th	41	9th	57·9	47·1	52·3	+ 0·2	72	0	•	•	•	•	•	•	7	1·20	+ 0·35	3·4	—	31	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	62	9th	48	6th	59·4	50·6	54·9	+ 0·2	90	0	•	•	•	•	•	•	6	1·21	+ 0·45	4·0	- 0·2	36	- 2	Scilly.
a Jersey, St. Aubins ..	64	7th	49	10th	62·3	53·0	57·5	+ 2·0	109	0	•	•	•	•	•	•	6	0·94	+ 0·01	5·1	+ 0·6	46	+ 5	St. Heliers.
a Guernsey (Villa Carey)	64	9, 10	50	5, 6	62·7	51·1	56·7	+ 1·7	103	0	0	45	58·5	+0·5	60·3	+0·9	6	1·42	+ 0·48	6·8	+ 2·6	62	+24	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·5 hrs. 23 %; Ramsgate, 4·3 hrs. 39 %; Rhyl, 2·4 hrs. 22 %; Salcombe, 5·9 hrs. 54 %; Tenby, 4·2 hrs. (+0·4) 39 % (+4); Torquay, 5·1 hrs. (+1·2) 46 % (+11).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, October 11th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	53	51	52·0	+1·3	SCOTLAND, W. ..	Lamlash	54	51	52·6	-0·7
	Kirkwall	53	47	50·9	+0·8		Ballantrae	55	52	53·0	+0·4
	Wick	54	51	52·2	+0·1	ENGLAND, N.W. ..	Port Erin	57	54	54·9	0·0
SCOTLAND, E. ..	Cromarty	54	51	52·5	+0·3	ENGLAND, S.W. ..	Newquay	59	58	58·1	+0·1
	Pennan Bay	54	51	52·8	+1·4		Scilly	60	58	58·5	—
	Aberdeen, Cove Bay	55	54	54·4	+3·0		Plymouth‡	60	59	59·0	+2·1
ENGLAND, N.E. ..	Burnmouth, Berwick	53	50	50·8	-0·4		Salcombe	61	57	57·8	+0·1
	Scarborough	54	50	52·0	-0·6	IRELAND, N.W. ..	Sheephaven	56	54	55·4	+0·4
ENGLAND, E. ..	Shipwash Lightship	62	58	60·2	+2·1		Teelin	58	53	54·9	-0·6
ENGLAND, S.E. ..	Eastbourne‡	61	60	60·3	+1·7	IRELAND, S.W. ..	Cleggan	59	56	57·5	+3·8
							Seafield	59	54	57·0	+1·5

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.
The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.
The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.
Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.
Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-FIRST WEEK—October 5th to October 11th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Means of						Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	58	30	52·4	40·0	46·1	− 0·6	37	− 3	6	0	2	− 3	0·06	−1·19	4·6	+2·1	43	+20
Eastern.																		
1. SCOTLAND, EAST ...	57	28	52·2	39·1	45·5	− 1·4	37	− 6	8	+ 1	5	+ 1	0·53	−0·21	3·6	+0·6	34	+ 6
2. ENGLAND, N.E.	63	31	55·6	45·9	50·6	+ 1·8	60	+ 10	0	− 3	5	+ 1	1·53	+0·87	2·6	−0·7	24	− 7
3. ENGLAND, EAST ...	63	37	58·5	47·7	52·9	+ 3·1	76	+ 17	0	− 4	5	+ 1	1·32	+0·69	3·1	−0·5	28	− 5
4. MIDLAND COUNTIES ...	64	35	56·1	46·8	51·3	+ 2·7	65	+ 12	0	− 5	5	+ 1	1·68	+1·01	1·8	−1·5	16	−14
5. ENGLAND, S.E.	63	37	59·3	49·3	54·2	+ 3·1	85	+ 18	0	− 3	5	+ 1	1·58	+0·86	2·7	−1·0	24	− 9
Western.																		
6. SCOTLAND, WEST ...	61	31	55·0	42·0	48·3	0·0	44	− 5	0	− 4	3	− 1	0·27	−0·84	3·4	+0·5	31	+ 4
7. ENGLAND, N.W.	63	37	55·7	46·8	51·1	+ 1·5	64	+ 9	0	− 1	5	0	0·77	−0·16	2·2	−0·7	20	− 7
8. ENGLAND, S.W.	65	39	59·0	48·9	53·8	+ 2·9	83	+ 19	0	− 2	5	+ 1	1·62	+0·59	3·7	+0·2	34	+ 2
9. IRELAND, NORTH ...	62	39	56·3	45·9	51·0	+ 2·3	63	+ 13	0	− 2	3	− 2	0·68	−0·20	2·8	−0·2	25	− 2
10. IRELAND, SOUTH ...	65	38	57·5	47·3	52·3	+ 2·2	72	+ 13	0	− 2	5	+ 1	1·32	+0·45	2·7	−0·8	25	− 8
11. ENGLISH CHANNEL ...	64	48	61·5	51·6	56·4	+ 2·1	101	+ 15	0	0	6	+ 1	1·19	+0·31	5·3	+1·1	48	+10

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 6 Weeks, August 31st to October 11th, 1913.

0. SCOTLAND, NORTH ...	71	30	*	*	*	*	391	+ 30	6	− 6	19	−10	2·51	−4·33	3·2	+0·1	27	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	74	28	*	*	*	*	402	+ 14	8	− 7	20	− 4	3·26	−0·41	2·6	−1·1	21	− 9
2. ENGLAND, N.E.	79	31	*	*	*	*	567	+110	0	− 5	23	+ 2	4·10	+1·10	3·6	−0·5	30	− 5
3. ENGLAND, EAST ...	76	37	*	*	*	*	649	+129	0	− 7	21	+ 1	3·53	+0·50	4·2	−0·4	35	− 3
4. MIDLAND COUNTIES ...	79	35	*	*	*	*	593	+118	0	−10	21	+ 1	4·70	+1·52	3·1	−0·9	25	− 8
5. ENGLAND, S.E.	76	37	*	*	*	*	668	+ 98	0	− 4	21	+ 1	5·10	+1·58	4·2	−0·5	35	− 4
Western.																		
6. SCOTLAND, WEST ...	73	31	*	*	*	*	479	+ 55	0	− 7	16	− 8	3·10	−3·00	2·9	−0·9	24	− 7
7. ENGLAND, N.W.	79	32	*	*	*	*	586	+105	0	− 2	17	− 6	3·48	−1·13	3·5	−0·4	29	− 3
8. ENGLAND, S.W.	78	36	*	*	*	*	633	+100	0	− 2	22	− 1	5·77	+0·88	3·4	−1·0	29	− 8
9. IRELAND, NORTH ...	71	35	*	*	*	*	525	+ 81	0	− 3	23	− 4	4·23	−0·52	3·1	−0·4	26	− 3
10. IRELAND, SOUTH ...	73	35	*	*	*	*	586	+ 91	0	− 3	26	+ 3	6·09	+1·78	3·3	−0·9	27	− 7
11. ENGLISH CHANNEL ...	77	47	*	*	*	*	740	+ 82	0	0	23	− 1	3·81	−0·31	5·1	−0·4	43	− 3

THE YEAR.—Aggregates, &c., for the Period of 41 Weeks, December 29th, 1912, to October 11th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	1,922	+ 7	430	−139	168	−21	31·22	−7·03	3·2	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	2,073	− 85	609	− 26	149	− 8	20·64	−2·60	3·6	−0·6	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	2,497	+ 90	406	− 74	141	0	18·42	−0·04	3·8	−0·8	29	− 6
3. ENGLAND, EAST ...	84	20	*	*	*	*	2,885	+105	303	−225	134	− 2	16·54	−1·40	4·3	−0·6	33	− 5
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,771	+ 60	392	−151	136	+ 1	21·63	+1·69	3·5	−0·9	27	− 7
5. ENGLAND, S.E.	84	22	*	*	*	*	3,013	+ 24	221	−164	130	0	20·33	+0·70	4·4	−0·6	34	− 5
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,336	+ 9	323	−109	154	−10	29·90	−5·05	3·8	−0·5	29	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,597	+ 49	298	− 90	150	− 1	25·79	−0·03	4·1	−0·3	31	− 3
8. ENGLAND, S.W.	83	19	*	*	*	*	2,880	+ 55	221	− 82	152	+ 4	29·57	+2·03	4·3	−0·6	33	− 5
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,395	− 36	297	− 51	175	− 4	28·42	−0·19	3·7	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,774	− 7	243	− 19	178	+20	33·62	+4·13	4·0	−0·5	31	− 4
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,275	+ 31	38	− 71	151	− 6	22·08	−0·72	5·0	−1·0	38	− 8

M.O., October 15, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* No. 42. FORTY-SECOND WEEK, SUNDAY, OCTOBER 12TH, TO SATURDAY, OCTOBER 18TH, 1913. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was fair to fine over the United Kingdom generally, but rain fell with some frequency in Ireland and the west of Scotland, the quantity being large in places.

Temperature continued above the normal. In Scotland N. and E. and Ireland N. the excess ranged between 7° and 8° and in Scotland W. and Ireland S. it was more than 6°. Over the major portion of England the excess amounted to about 4°. The highest of the maxima were generally recorded either early or late in the week, and ranged from 68° in the English Channel and 67° in the Midland Counties to 63° in England N.E. and to 62° in Scotland W. The lowest of the minima, which occurred, as a rule, during the latter half of the period, were as low as 28° in Scotland E. (at Balmoral on the 16th) and 32° in the Midland Counties and England S.W. Elsewhere they varied from 35° in England S.E. to 42° in Scotland W., and to 43° in the English Channel. The lowest grass readings were 24° at Birmingham, 25° at Balmoral, 26° at Greenwich, 27° at Worksop and Wisley and 28° at Raunds and Hampstead. At a depth of 4 feet the temperature of the soil was above the normal, but at a depth of 1 foot it was in many places a little below it.

Mean Temperature of the Sea. At Wick and Scarborough the temperature was very slightly below the normal, but at all other stations it was above it, and on all parts of the coast the water was warmer than during the corresponding week of last year. The means for the week ranged from about 58°·5 at Salcombe and Plymouth, and nearly 58° at Eastbourne and the Shipwash Lighthouse to about 51° at Lerwick, Kirkwall and Burnmouth.

Rainfall exceeded the average in Scotland N. and W., and Ireland S., but was below it elsewhere. At many English stations the fall amounted to less than 0·1 in., while at some stations on the south coasts of Devon and Cornwall the week was rainless. More than an inch in 24 hours was experienced on the 13th at some places in the west of Ireland and the west and north-west of Scotland; 1·2 in. at Valencia, 1·6 in. at Blacksod Point and Fort William and 1·1 in. at Rothesay and Stornoway.

Bright Sunshine was above the normal in England, and below it in Ireland and Scotland. In England S.E. and S.W. the percentage of the possible duration was respectively 46 and 47, and the daily mean nearly 5 hours. In Scotland W. and Ireland N. the percentage was only 13 and the daily mean 1·3 hour. In the English Channel the percentage was as high as 61 and the daily mean 6·5 hours.

Barometer and Wind. During the greater part of the week a vast area of low pressure extended from the Azores or Madeira to Iceland and occasionally still further to the Norwegian coasts, while to the eastward of these Islands pressure was high. This general distribution of pressure was interrupted temporarily on Wednesday by an anticyclone that passed eastward from the Atlantic across the south of England. The Southerly wind which formed the main current over the United Kingdom was generally light or moderate in force, but it increased considerably at times along the western and northern seaboard, and blew a gale at some exposed places.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 167.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Very unusual	Very unusual	Unusual	Unusual	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual
	Rainfall ...	Moderate	Light	Very light	Light	Very light	Very light	Moderate	Light	Light	Moderate	Moderate	Very light
	Sunshine ...	Scanty	Scanty	Moderate	Moderate	Moderate	Abundant	Scanty	Moderate	Abundant	Very scanty	Very scanty	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 7 weeks from Aug. 31st, 1913.	Warmth ...	3 * 0	3 * 0	4 * 0	5 * 0	5 * 0	5 * 0	3 * 0	5 * 0	5 * 0	4 * 0	5 * 1	5 * 0
	Rainfall ...	0 * 4	2 * 3	3 * 2	3 * 4	3 * 1	3 * 4	1 * 3	2 * 4	2 * 3	2 * 2	4 * 1	1 * 2
	Sunshine ...	3 * 3	1 * 6	1 * 3	1 * 1	0 * 3	3 * 2	0 * 4	2 * 3	1 * 4	0 * 4	0 * 5	2 * 3

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(32184—24.) Wt. 196—786. 450. 10/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*57*	*17, 18*	*41*	*15th*	*54·3*	*47·6*	*50·9*	—	*62*	*0*			48·5				*6*	*1·91*	—	*1·2*	—	*12*	—	*Baltasound.*
a Islands .. *a* Lerwick ..	59	17th	43	15th	55·1	48·0	51·5	+ 5·8	67	0							6	0·99	—	1·3	- 1·3	13	-13	Deerness.
a Stornoway ..	58	13, 16, 17	46	15th	56·6	49·3	52·8	+ 6·9	76	0							7	1·72	+ 0·44	1·0	- 1·7	10	-17	Stornoway.
a Castlebay, Barra Isd.‡ ..	*58*	*16, 17*	*48*	*15, 16*	*56·3*	*50·4*	*53·3*	*+ 5·3*	*79*	*0*							*7*	*1·41*	—	*1·3*	—	*13*	—	*Castlebay.*
a Wick	60	17, 18	44	16th	56·9	48·6	52·6	+ 6·3	74	0							3	0·35	- 0·38					
b, Main- *p* Strathpeffer ..	66	17th	39	16th	60·6	48·9	54·6	+ 9·3	88	0							2	0·30	- 0·36	1·7	- 1·2	17	-11	Strathpeffer.
land. *p* Glencarron ..	64	13th	44	12, 16	59·5	48·1	53·6	+ 9·0	81	0							7	2·44	+ 0·81					
p Fort Augustus..	63	17th	47	16th	59·4	53·0	56·1	+10·3	99	0							3	0·08	+ 0·02	1·5	- 0·5	15	- 5	Fort Augustus.
p Fort William .. S	61	14, 17	46	16th	58·7	50·4	54·4	+ 7·3	87	0							4	2·08	+ 0·35					
1. SCOTLAND, E.																								
p Gordon Castle.. S	66	17th	44	15th	62·4	49·4	55·7	+ 8·8	96	0	1	30	50·5	+1·0	51·9	+0·5	—	—	—	2·3	—	23	—	Crathes S.
a Nairn	64	13, 17	41	16, 17	60·0	46·4	53·0	+ 6·8	77	0							4	0·36	- 0·18	2·0	—	20	—	Nairn.
a Aberdeen ..	63	17th	40	16th	58·4	46·9	52·5	+ 5·6	74	0					51·4	+0·6	1	0·17	- 0·49	2·3	- 0·9	23	- 9	Aberdeen.
a Balmoral ..	63	16, 18	28	16th	59·9	43·6	51·5	+ 8·7	67	0	1	25					3	0·15	- 0·70					Balmoral.
p Crieff	60	15th	43	15, 16	57·6	47·7	52·5	+ 5·7	74	0							4	0·91	+ 0·04	2·2	—	22	—	Balruddery.
a Leith	64	13th	47	16, 18	60·1	49·7	54·8	+ 6·6	90	0							2	0·07	- 0·41					
p West Linton .. S	58	17th	40	15, 16	56·3	45·3	50·6	+ 5·4	60	0	1	30					4	0·45	—	*1·6*	—	*16*	—	*West Linton.*
p Marchmont .. S	59	12, 13	41	16th	56·9	45·9	51·2	+ 5·6	64	0	0	36	49·6	+0·9			2	0·24	- 0·58	1·8	- 1·0	18	-10	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	63	17th	38	16th	58·3	45·0	51·5	+ 4·3	67	0	0	32	48·4	0·0	51·3	+0·7	2	0·15	- 0·69	2·7	—	26	—	Cockle Park.
a Shields	62	17th	42	16, 18	58·4	45·7	51·9	+ 4·0	69	0							2	0·18	- 0·52					
p Durham	61	18th	38	19th	58·0	44·4	51·0	+ 4·0	63	0	0	34					2	0·05	- 0·69	2·8	- 0·1	27	- 1	Durham.
a, North .. *p* Rounton	61	18th	43	13, 18	58·1	45·3	51·5	+ 4·7	67	0	0	35	51·6				2	0·11	- 0·61					Rounton.
a West Witton	*62*	*17th*	*36*	*16th*	*57·9*	*42·4*	*49·9*	—	*55*	*0*	0	31	49·7		51·7		*2*	*0·13*	—					*West Witton.*
p Scarborough	62	17th	43	18th	58·4	46·7	52·4	+ 3·8	73	0					55·4		3	0·09	- 0·66	4·1	—	40	—	Scarborough.
p York	63	17th	39	18th	58·9	44·7	51·6	+ 3·4	67	0			52·7	+0·3	54·7	+1·0	1	0·02	- 0·58	3·0	+ 0·3	29	+ 3	York.
											0	32	50·0	-0·9	54·4	+1·1	—	—	—	*3·4*	—	*33*	—	*Hull.*
a Spurn Head	60	12, 13	?45	? 17, 18	58·0	?46·6	?52·1	+ 2·2	71	0							1	0·06	- 0·49	*3·7*	—	*36*	—	*Spurn Head.*
b, South .. *a* Lincoln	62	12th	36	18th	58·9	43·3	50·9	+ 2·7	62	0			51·0	-0·7	55·3	+1·4	1	0·05	- 0·53					Lincoln.
a Fulbeck	63	12th	40	16th	59·0	44·1	51·3	+ 3·5	65	0	1	30	52·9	+1·3	55·2	+0·9	1	0·08	- 0·51	3·0	—	29	—	Rauceby.
																	—	—	—	3·1	—	30	—	Skegness.
3. ENGLAND, E.											0	41	53·3	-0·6	56·4	+0·5	—	—	—	*4·1*	—	*39*	—	*Lowestoft.*
p Cromer	62	13th	42	18th	59·1	46·9	52·8	+ 4·5	76	0							5	0·33	—	3·9	—	38	—	Cromer.
p Little Massingham ..	61	13th	42	18th	58·3	45·1	51·5	+ 3·1	67	0	0	38					4	0·27	- 0·43	3·2	—	31	—	Lit. Massingham.
a, North .. *a* Yarmouth ..	60	13, 17	44	12, 13	58·9	47·3	52·9	+ 3·2	76	0			53·7	-0·4	56·7	+0·5	1	0·30	- 0·40	4·2	—	40	—	Yarmouth.
a Norwich	61	13th	40	13th	57·7	42·6	49·9	+ 1·3	55	0	0	36	50·9				1	0·28	—	*3·8*	—	*37*	—	*Norwich.*
p Geldeston ..	63	16, 17	37	13, 18	60·9	42·1	51·2	+ 1·8	64	0					57·9	+0·6	1	0·33	- 0·34	4·3	+ 0·8	41	+ 8	Geldeston.
p Cambridge	64	12th	38	17, 18	60·9	44·3	52·4	+ 3·8	73	0	0	34	53·7	+0·6	56·3	+0·6	1	0·22	- 0·31	4·4	+ 1·0	42	+10	Cambridge.
a Felixstowe	*61*	*12, 15*	*42*	*17th*	*59·7*	*47·9*	*53·6*	*+ 3·1*	*81*	*0*							*1*	*0·21*	—	*4·3*	—	*41*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	60	16, 18	46	13th	59·0	48·6	53·7	+ 3·4	82	0	0	40	54·7	-0·7	57·3	+1·1	1	0·27	—	4·5	—	43	—	Clacton.
a Rothamsted	62	12th	36	18th	59·6	44·8	51·9	+ 3·7	69	0							3	0·14	- 0·53	4·1	+ 0·6	39	+ 6	Rothamsted.
a Shoeburyness	*61*	*12, 18*	*44*	*13th*	*60·0*	*48·4*	*54·0*	*+ 3·1*	*84*	*0*	0	41	55·9	-0·1			*2*	*0·22*	- *0·25*	*4·7*	—	*45*	—	*Southend.*
p Tottenham	63	12th	42	17, 18	59·9	46·9	53·2	+ 4·6	78	0	0	35			57·9	+0·6	1	0·15	—	2·9	—	28	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	60	17th	39	16th	56·4	43·9	50·0	+ 3·2	56	0	0	31	50·0	-1·3	53·5	+0·7	—	—	—	*2·9*	—	*28*	—	*Huddersfield.*
a Bawtry	62	12th	36	18th	58·4	41·9	49·9	+ 2·6	56	0	0	34	50·8	+0·3	52·4	+1·0	2	0·18	- 0·56	2·0	—	19	—	Harrogate.
p Buxton	*63*	*13th*	*36*	*12th*	*57·1*	*41·7*	*49·2*	*+ 4·4*	*52*	*1*	2	27	51·6		53·9		2	0·09	- 0·48	2·5	- 0·2	24	- 2	Worksop.
a, East .. *a* Nottingham ..	63	12th	36	18th	59·0	41·3	49·9	+ 1·9	58	2	0	32	50·3	-1·0	55·1	+0·8	0	0·30	- 0·86	*3·4*	—	*33*	—	*Buxton.*
p Birmingham, Edgbsn.	61	13th	42	17, 18	58·4	44·9	51·5	+ 3·8	67	0	2	24	50·6	+0·2	52·7	+0·5	2	0·08	- 0·47	2·5	—	24	—	Nottingham.
a Raunds	67	12th	32	17th	62·1	42·3	51·9	+ 3·8	69	0	1	28	54·2		55·8		2	0·14	- 0·46	3·6	—	35	—	Birmingham.
p Oxford	63	13th	43	12th	60·0	47·0	53·3	+ 4·9	79	0	0	37					1	0·07	—					
											0	34	51·5	+0·4	53·4	+0·5	3	0·11	- 0·49	4·3	+ 1·0	41	+10	Oxford.
a Cheadle	58	13th	40	16th	54·3	44·9	49·5	+ 3·1	53	0	—	—	—	—	—	—	—	—	—	4·2	—	40	—	Sheffield.
p Shrewsbury	62	13th	35	12th	59·1	42·3	50·5	+ 2·5	60	0	0	37					1	0·09	- 0·61					Cheadle.
b, West .. *a* Hereford	63	13th	35	17th	60·7	43·1	51·6	+ 3·2	67	0	0	29					1	0·07	—					Shrewsbury.
a Cirencester	62	13th	33	17th	58·4	41·7	49·8	+ 2·3	56	1	2	23					1	0·07	- 0·53					Hereford.
a Bath	66	12th	35	17th	62·7	42·7	52·4	+ 2·8	73	0	0	31	53·2		55·1		2	0·18	- 0·49	3·7	+ 0·5	36	+ 5	Cirencester.
											*	*	55·4	+0·1	57·8	+0·6	1	0·13	- 0·54	4·5	—	43	—	Bath.
5. ENGLAND, S.E.																								
p Kew	63	13th	38	17th	60·3	44·6	52·2	+ 3·2	71	0	0	33	53·7	-0·1	58·7	+0·9	—	—	—	*	*	*	*	Canterbury.
a Marlborough	64	13th	35	12, 16	60·0	42·3	50·9	+ 3·8	62	0	0	31	53·3	-0·7	55·7	+0·4	1	0·12	- 0·49	4·5	+ 1·5	43	+14	Kew.
a Margate	61	16, 18	46	14th	59·7	49·4	54·4	+ 3·4	87	0	0	31	*	*	55·3	*	1	0·07	- 0·66	4·0	+ 0·9	39	+ 9	Marlborough.
a Wisley, Surrey ..	66	12th	36	17, 18	62·1	42·7	52·1	+ 2·3	71	0	0	37	54·4	+1·2	55·6	+0·1	1	0·21	- 0·41	4·7	+ 1·2	45	+12	Margate.
											2	27	53·2	-0·1	55·4	-0·2	1	0·09	—	5·3	—	51	—	Wisley.
											0	31	55·3	+0·1	57·8	+0·8	—	—	—	5·2	—	49	—	Worthing.
p Salisbury (Wilton) ..	66	12, 13	39	12, 17	62·1	43·9	52·7	+ 4·2	75	0	0	36	54·6	*	*	*	1	0·05	- 0·75	*	*	*	*	Salisbury.
a Tunbridge Wells ..											*	*	*	*	*	*	—	—	—	*	*	*	*	Tunbridge Wells.
a Dungeness	62	12th	42	12th	59·4	48·4	53·7	+ 1·8	82	0	0	36	*	*	*	*	2	0·10	- 0·60	5·2	—	50	—	Littlestone.
p Hastings.. ..	63	12, 13	46	12th	61·1	50·9	55·9	+ 4·8	97	0	0	39	55·3	*	57·6	*	2	0·06	- 0·78	*5·8*	*+ 1·9*	*55*	*+18*	*Hastings.*
p Southampton	65	12th	42	12th	61·3	47·6	54·3	+ 3·5	86	0	0	36	*	*	*	*	1	0·02	- 0·78	4·1	+ 0·5	39	+ 5	Southampton.
a Ventnor	65	12, 13	50	16th	62 0	53·4	57·6	+ 5·1	109	0	*	*	*	*	*	*	2	0·02	- 0·52	5·2	+ 1·3	49	+12	Ventnor.
											0	37	56·0	+1·1	57·6	+0·3	—	—	—	*5·3*	—	*50*	—	*Portsmouth.*
											*	*	56·3	*	58·3	*	—	—	—	5·2	+ 1·4	49	+14	Eastbourne.
LONDON.											*	*	54·9	*	56·7	*	—	—	—	*5·6*	—	*53*	—	*Bournemouth.*
											0	39	*	*	58·3	*	—	—	—	*5·2*	*+ 1·3*	*49*	*+12*	*Brighton.*
a Westminster	*64*	*12, 13*	*45*	*13, 17*	*62·4*	*48·3*	*55·1*	*+ 6·3*	*92*	*0*	0	39	*	*	*	*	*1*	*0·13*	- *0·46*	*3·9*	*+ 1·7*	*38*	*+16*	*Westminster.*
a Greenwich	*64*	*12, 13*	*39*	*17th*	*62·0*	*45·6*	*53·6*	*+ 4·3*	*81*	*0*	2	26	*	*	*	*	*1*	*0·12*	- *0·44*	*4·6*	*+ 1·6*	*44*	*+15*	*Greenwich.*
a Hampstead	*62*	*12, 13*	*44*	*17th*	*59·9*	*47·4*	*53·5*	—	*81*	*0*	2	28	*	*	*	*	*1*	*0·19*	—	*3·6*	—	*35*	—	*Hampstead.*
a Camden Square ..	*64*	*13th*	*42*	*17th*	*62·4*	*46·9*	*54·4*	—	*87*	*0*	0	40	*	*	*	*	*1*	*0·19*	—	*3·2*	—	*31*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	61	17th	45	16th	57·1	49·1	53·0	+ 5·4	77	0	*	*	*	*	*	*	6	1·13	- 0·01	*	*	*	*	
p Glasgow	62	13th	46	16th	58·0	50·1	53·9	+ 7·3	83	0	0	36	*	*	*	*	4	0·76	- 0·01	1·6	- 0·7	16	- 7	Glasgow.
p Rothesay .. S	58	13th	44	12th	56·6	49·3	52·8	+ 5·2	76	0	0	36	50·9	*	51·6	+0·1	5	1·33	+ 0·36	*	*	*	*	
a Kilmarnock ..	62	13th	42	16th	58·6	49·1	53·7	+ 6·7	82	0	*	*	*	*	*	*	4	1·16	—	*1·0*	—	*10*	—	*Kilmarnock.*
a Colmonell ..	60	13th	45	16th	58·4	50·3	54·2	+ 6·8	85	0	0	43	*	*	*	*	5	1·18	+ 0·16	*	*	*	*	
p Dumfries ..	59	18th	44	16th	57·3	49·3	53·2	+ 6·2	78	0	0	36	51·4	*	54·0	*	3	0·83	0·00	*0·9*	—	*9*	—	*Dumfries.*
p Cally, Gatehouse S	60	15, 17	43	16th	58·4	48·0	53·1	+ 6·2	78	0	*	*	*	*	*	*	2	1·30	+ 0·20	*	*	*	*	
b I. OF MAN																								
p Douglas	58	12-14, 18	48	15, 16	57·1	51·6	54·3	+ 6·2	86	0	0	45	*	*	*	*	2	0·77	- 0·27	1·0	- 2·2	10	-23	Douglas.
											0	31	51·0	+0·9	53·2	+1·1	—	—	—	*2·5*	—	*24*	—	*Burnley.*
											0	37	*	*	*	*	—	—	—	4·0	—	39	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	63	12th	43	16th	58·7	46·7	52·5	+ 5·4	74	0	0	35	51·3	*	52·6	*	2	0·89	- 0·03	1·5	—	15	—	Aspatria.
p Newton Rigg	62	17th	37	18th	57·3	44·3	50·6	+ 4·8	60	0	0	31	51·4	+0·4	52·5	+0·3	2	0·30	- 0·57	2·7	0·0	26	0	Newton Rigg.
p Stonyhurst	60	12th	40	18th	56·9	45·7	51·1	+ 4·2	64	0	0	31	*	*	*	*	2	0·56	- 0·52	2·1	- 0·7	20	- 7	Stonyhurst.
p Blackpool	63	12th	41	18th	58·7	47·0	52·7	+ 4·0	75	0	0	36	52·8	*	54·2	*	2	0·60	- 0·26	3·4	+ 0·4	33	+ 4	Blackpool.
p Manchester (Whit. Pk.)	63	12th	41	18th	58·7	46·1	52·2	+ 4·4	71	0	*	*	*	*	*	*	3	0·41	- 0·31	*2·6*	*+ 0·4*	*25*	*+ 4*	*Whit. Park.*
a Liverpool (Bidston) ..	62	13th	43	18th	58·3	47·0	52·5	+ 3·0	74	0	*	*	*	*	*	*	2	0·44	- 0·33	*4·1*	—	*39*	—	*Liverpool.*
a Hawarden Bridge ..	64	12th	40	12th	60·0	46·4	53·0	+ 3·4	77	0	0	35	51·1	0·0	54·1	+0·1	2	0·14	- 0·55	*3·7*	*+ 0·9*	*36*	*+ 9*	*Southport.*
											0	37	52·8	+1·1	57·9	+3·0	—	—	—	*2·3*	—	*22*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	65	13th	45	18th	60·6	47·6	53·9	+ 3·2	83	0	*	*	*	*	*	*	1	0·34	- 0·49	4·0	+ 1·2	39	+12	Llandudno.
a Holyhead	61	13th	48	16th	58·4	52·7	55·5	+ 5·0	95	0	*	*	*	*	*	*	4	0·89	+ 0·02	*2·2*	—	*21*	—	*Holyhead.*
p Bettws-y-Coed ..											*	*	*	*	*	*	—	—	—	*	—	*	—	Bettws-y-Coed.
											*	*	*	*	*	*	—	—	—	3·5	—	34	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.
‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.																**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·8	—	37	—	
a Llangammarch Wells	64	13th	32	17th	60·1	41·4	50·5	+ 3·8	62	2	1	30	51·7	−0·2	54·1	+0·7	1	0·32	—	4·3	+ 0·9	41	+ 9	Aberystwyth.
a Pembroke	61	13th	47	16, 17	59·0	51·7	55·2	+ 3·9	92	0	*	*	*	*	*	*	1	0·32	— 0·55	3·2	—	31	—	Llangammarch
p Cardiff	64	12-14	39	17th	61·6	46·0	53·6	+ 5·2	81	0	0	33	54·4	+1·4	56·3	+1·3	1	0·20	— 0·84	*5·6*	—	*54*	—	Pembroke.[Wells
																								Cardiff.
b, ENGLAND, S.W.																								
a Clifton	64	13th	36	18th	61·1	45·3	53·0	+ 4·3	77	0	0	37	*	*	*	*	1	0·23	— 0·60	*5·1*	—	*49*	—	*Clifton.*
a Shaftesbury	63	12th	45	16th	59·7	48·4	53·9	+ 5·4	83	0	*	*	54·5	*	56·6	*	1	0·02	— 0·78	*	*	*	*	Shaftesbury.
a Arlington	63	12, 13	38	16th	60·0	46·4	53·0	+ 4·5	77	0	*	*	*	*	*	*	1	0·24	— 1·22	*	*	*	*	Arlington.
a Newquay	*64*	*14th*	*39*	*16th*	*60·4*	*48·9*	*54·5*	*+ 2·6*	*88*	*0*	*	*	56·1	*	*	*	*1*	*00·4*	*— 0·73*	6·1	+ 2·5	58	+23	Newquay.
a Cullompton	66	12th	33	16th	62·7	42·0	52·0	+ 2·8	70	0	0	31	54·3	*	*	*	2	0·03	— 0·81	4·9	+ 1·8	46	+17	Cullompton.
a Portland	62	12, 13, 16	50	16th	61·0	54·9	57·9	+ 5·5	111	0	*	*	*	*	*	*	1	0·01	—	*5·7*	—	*54*	—	*Weymouth.*
p Plymouth	64	13th	40	16th	61·7	50·3	55·8	+ 4·6	97	0	0	33	56·1	+1·2	*	*	0	0·00	— 0·83	5·8	+ 2·3	55	+22	Plymouth.
a Falmouth	64	12th	44	16, 17	61·7	50·7	56·0	+ 4·4	98	0	0	36	*	*	*	*	0	0·00	— 1·08	5·8	+ 2·0	55	+19	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	65	13th	45	16th	60·7	49·4	54·9	+ 6·0	90	0	*	*	*	*	*	*	3	0·30	— 0·42	*	*	*	*	* *
a Blacksod Point ..	64	17th	43	16th	60·6	51·3	55·8	+ 5·9	97	0	*	*	*	*	*	*	7	2·17	+ 1·01	*	*	*	*	* *
p Markree Castle ..	64	12, 13, 17	41	16th	61·4	49·4	55·2	+ 8·0	92	0	0	32	55·4	*	55·0	*	4	0·60	— 0·33	1·6	— 1·3	16	−12	Markree Castle.
a Birr Castle	62	12, 16, 17	39	16th	60·0	48·0	53·8	+ 6·6	83	0	*	*	*	*	*	*	4	0·43	— 0·20	*1·2*	— *2·0*	*13*	*−19*	*Birr Castle.*
b, East .. { *p* Armagh	63	12, 13	43	16th	60·7	49·6	55·0	+ 7·7	91	0	0	35	54·3	+2·3	54·1	+0·3	2	0·48	— 0·12	1·0	— 1·9	10	−19	Armagh.
a Donaghadee	60	13, 17	46	16th	58·1	50·1	54·0	+ 5·1	84	0	*	*	*	*	*	*	4	0·52	— 0·11	*	*	*	*	* *
											0	33	54·5	+1·8	55·1	+0·9	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											1	30	*	*	*	*	—	—	—	2·2	— 1·3	21	−12	Phœnix Park.
a, East .. { *p* Dublin, City	65	13th	42	16th	61·3	48·6	54·8	+ 5·6	90	0	0	40	*	*	*	*	2	0·09	— 0·50	*	*	*	*	Dublin City.
a Kilkenny	63	12th	39	15th	59·0	49·9	54·3	+ 6·2	86	0	*	*	*	*	*	*	4	0·72	+ 0·07	*	*	*	*	* *
a Waterford	62	12th	42	15th	59·1	51·9	55·4	+ 6·3	94	0	*	*	*	*	*	*	3	1·10	+ 0·30	*	*	*	*	* *
a Carrick-on-Suir ..	*58*	*12-14, 18*	*43*	*15th*	*57·6*	*50·6*	*54·9*	--	*84*	*0*	*0*	*37*	*	*	*	*	*6*	*0·91*	—	*1·6*	—	*15*	—	*Carrick-on-Suir.*
b, West .. { *a* Birr Castle	62	12, 16, 17	39	16th	60·0	48·0	53·8	+ 6·6	83	0	*	*	*	*	*	*	4	0·43	— 0·26	1·2	— 2·0	12	−19	Birr Castle.
a Foynes	64	17th	40	15th	61·9	51·6	56·6	+ 7·1	102	0	*	*	*	*	*	*	3	0·37	— 0·47	*	*	*	*	* *
a Cahir	61	12, 16, 18	37	16th	60·0	49·3	54·5	+ 5·1	88	0	*	*	*	*	*	*	5	0·67	—	*	*	*	*	* *
a Killarney	65	12, 14, 16	41	15th	63·6	51·5	57·4	+ 8·1	108	0	*	*	*	*	*	*	5	1·73	+ 0·53	*	*	*	*	* *
a Valencia	63	16, 17	44	15th	60·7	52·4	56·4	+ 5·1	101	0	*	*	*	*	*	*	6	2·16	+ 0·97	1·5	— 1·8	14	−18	Valencia.
a Roche's Point	60	12, 15, 18	47	15th	59·4	53·3	56·3	+ 5·4	100	0	*	*	*	*	*	*	6	1·31	+ 0·42	1·2	—	12	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	62	12, 13	49	16th	60·6	53·6	57·0	+ 3·6	105	0	*	*	*	*	*	*	2	0·04	— 0·75	5·4	+ 1·6	51	+16	Scilly.
a Jersey, St. Aubins ..	65	16th	43	16th	62·6	48·9	55·6	+ 1·8	95	0	*	*	*	*	*	*	1	0·03	— 0·97	6·8	+ 2·7	64	+26	St. Heliers.
a Guernsey (Villa Carey)	68	16th	45	16th	63·9	50·7	57·1	+ 3·5	106	0	0	40	57·5	+0·8	59·2	+0·6	3	0·05	— 0·97	7·3	+ 3·4	69	+34	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·6 hrs. 53 %; Ramsgate, 5·1 hrs. 49 %; Rhyl, 4·2 hrs. 40 %; Salcombe, 5·9 hrs. 56 %; Tenby, 3·9 hrs. (+0·4) 38 % (+4); Torquay, 5·4 hrs. (+1·8) 51 % (+17).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, October 18th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick..	51	51	51·0	+0·7	SCOTLAND, W. ..	{ Lamlash	53	52	52·8	+0·3
	{ Kirkwall	52	50	51·1	+1·9		{ Ballantrae	54	52	52·9	+1·2
	{ Wick	52	51	51·5	−0·2	ENGLAND, N.W. ..	Port Erin	56	54	55·1	+0·9
	{ Cromarty	52	51	51·9	+0·6		{ Newquay	58	57	57·8	+0·4
SCOTLAND, E. ..	{ Pennan Bay	53	51	52·1	+1·6	ENGLAND, S.W. ..	{ Scilly	58	57	57·2	—
	{ Aberdeen, Cove Bay	54	53	53·1	+2·2		{ Plymouth‡	59	58	58·7	+2·3
ENGLAND, N.E. ..	{ Burnmouth, Berwick	52	51	51·1	+0·6		Salcombe	60	58	58·5	+1·6
	{ Scarborough	54	50	51·9	−0·1	IRELAND, N.W. ..	{ Sheephaven	55	54	54·9	+1·0
ENGLAND, E. ..	Shipwash Lightship	60	55	57·8	+0·6		{ Teelin	57	54	55·4	+1·1
ENGLAND, S.E. ..	Eastbourne‡	58	57	57·7	+0·4	IRELAND, S.W. ..	{ Cleggan	57	52	55·6	+3·2
							{ Seafield	60	54	57·4	+2·7

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-SECOND WEEK—October 12th to October 18th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	66	39	58·1	49·5	53·7	+ 8·1	82	+ 47	0	− 9	5	· 0	1·27	+0·17	1·4	−1·1	14	−11
Eastern.																		
1. SCOTLAND, EAST ...	66	28	59·0	46·9	52·7	+ 7·3	75	+ 38	0	−11	3	− 1	0·30	−0·36	2·1	−0·7	21	− 7
2. ENGLAND, N.E.	63	36	58·4	45·1	51·6	+ 4·1	67	+ 24	0	− 5	2	− 2	0·09	−0·65	3·1	+0·1	30	+ 1
3. ENGLAND, EAST ...	64	36	59·4	45·4	52·2	+ 3·9	71	+ 20	0	− 6	3	− 1	0·25	−0·40	3·9	+0·6	38	+ 6
4. MIDLAND COUNTIES ...	67	32	59·0	43·3	50·9	+ 3·7	62	+ 16	0	− 8	2	− 2	0·11	−0·55	3·4	+0·4	33	+ 4
5. ENGLAND, S.E.	66	35	60·9	47·0	53·8	+ 4·1	83	+ 25	0	− 4	1	− 2	0·08	−0·65	4·8	+1·4	46	+14
Western.																		
6. SCOTLAND, WEST ...	62	42	57·7	49·6	53·5	+ 6·4	81	+ 38	0	− 7	4	0	1·06	+0·04	1·3	−1·4	13	−14
7. ENGLAND, N.W.	65	37	58·6	47·1	52·7	+ 4·4	75	+ 27	0	− 4	2	− 1	0·51	−0·35	3·0	+0·3	29	+ 3
8. ENGLAND, S.W.	66	32	60·9	47·7	54·1	+ 4·4	85	+ 27	0	− 3	1	− 3	0·14	−0·87	4·8	+1·5	47	+15
9. IRELAND, NORTH ...	65	39	60·3	49·6	54·8	+ 7·3	90	+ 45	0	− 5	4	0	0·75	−0·06	1·3	−1·7	13	−16
10. IRELAND, SOUTH ...	65	37	60·6	50·7	55·5	+ 6·6	95	+ 41	0	− 4	4	0	0·95	+0·07	1·5	−1·7	15	−17
11. ENGLISH CHANNEL ...	68	43	62·4	51·1	56·6	+ 3·4	102	+ 24	0	0	2	− 3	0·04	−0·88	6·5	+2·5	61	+24

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 7 Weeks, August 31st to October 18th, 1913.

0. SCOTLAND, NORTH ...	71	30	*	*	*	*	473	+ 77	6	−15	24	−10	3·78	−4·16	3·0	0·0	25	− 1
Eastern.																		
1. SCOTLAND, EAST ...	74	28	*	*	*	*	477	+ 52	8	−18	23	− 5	3·56	−0·77	2·5	−1·1	21	− 9
2. ENGLAND, N.E.	79	31	*	*	*	*	634	+134	0	−10	25	0	4·19	+0·45	3·5	−0·5	30	− 4
3. ENGLAND, EAST ...	76	36	*	*	*	*	720	+149	0	−13	24	0	3·78	+0·10	4·2	−0·2	35	− 2
4. MIDLAND COUNTIES ...	79	32	*	*	*	*	655	+134	0	−18	23	− 1	4·81	+0·97	3·1	−0·8	26	− 7
5. ENGLAND, S.E.	76	35	*	*	*	*	751	+123	0	− 8	22	− 1	5·18	+0·93	4·3	−0·2	36	− 2
Western.																		
6. SCOTLAND, WEST ...	73	31	*	*	*	*	560	+ 93	0	−14	20	− 8	4·16	−2·96	2·7	−0·9	23	− 8
7. ENGLAND, N.W.	79	32	*	*	*	*	661	+132	0	− 6	19	− 7	3·99	−1·48	3·5	−0·2	29	− 2
8. ENGLAND, S.W.	78	32	*	*	*	*	718	+127	0	− 5	23	− 4	5·91	+0·01	3·6	−0·7	31	− 5
9. IRELAND, NORTH ...	71	35	*	*	*	*	615	+126	0	− 8	27	− 4	4·98	−0·58	2·8	−0·6	24	− 5
10. IRELAND, SOUTH ...	73	35	*	*	*	*	681	+132	0	− 7	30	+ 3	7·04	+0·85	3·0	−1·0	26	− 9
11. ENGLISH CHANNEL ...	77	43	*	*	*	*	842	+106	0	0	25	− 4	3·85	−1·19	5·3	0·0	45	0

THE YEAR.—Aggregates, &c., for the Period of 42 Weeks, December 29th, 1912, to October 18th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	2,004	+ 54	430	−148	173	−21	32·49	−6·86	3·2	−0·3	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	2,148	− 47	609	− 37	152	− 9	20·94	−2·96	3·6	−0·6	27	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	2,564	+114	406	− 79	143	− 2	18·51	−0·69	3·8	−0·7	29	− 6
3. ENGLAND, EAST ...	84	20	*	*	*	*	2,956	+125	303	−231	137	− 3	16·79	−1·80	4·3	−0·6	33	− 5
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,833	+ 76	392	−159	138	− 1	21·74	+1·14	3·5	−0·9	27	− 6
5. ENGLAND, S.E.	84	22	*	*	*	*	3,096	+ 49	221	−168	131	− 2	20·41	+0·05	4·4	−0·6	34	− 4
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,417	+ 47	323	−116	158	−10	30·96	−5·01	3·7	−0·6	28	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,672	+ 76	298	− 94	152	− 2	26·30	−0·38	4·0	−0·3	31	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	2,965	+ 82	221	− 85	153	+ 1	29·71	+1·16	4·3	−0·6	33	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,485	+ 9	297	− 56	179	− 4	29·17	−0·25	3·4	−0·5	28	− 3
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,869	+ 34	243	− 23	182	+20	34·57	+4·20	3·9	−0·6	30	− 4
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,377	+ 55	38	− 71	153	− 9	22·12	−1·60	5·0	−0·9	39	− 7

M.O., October 22, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* } No. 43. FORTY-THIRD WEEK, SUNDAY, OCTOBER 19TH, TO SATURDAY, OCTOBER 25TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The conditions were rather variable. Over most of England there was very little rain, and several bright periods were experienced in Ireland, Scotland and the western districts of England, although rain fell more frequently there. A thunderstorm occurred in the south of Ireland on the 20th, and at a few places along the southern coasts of England on the 21st. Late in the week a good deal of mist and fog was reported over England.

Temperature was above the average in Great Britain, the largest excess being 2°·5 in England South-East. In Ireland it was below normal—as much as 3° in the south. The highest of the maxima were registered, as a general rule, on the 19th or 20th, and ranged from 68° in England North-West and 67° in England South-West and the English Channel to 62° in England East. The lowest of the minima, which occurred late in the week, mostly on the 24th, varied from 24° in Ireland (at Birr Castle and Cahir) and 25° in Scotland East and West and England North-West to 32° in England South-East, and to 44° in the English Channel. The lowest grass readings reported were 18° at Colmonell, 19° at West Linton, 20° at Carrick-on-Suir and Rauceby and 21° at Newton Rigg, Stonyhurst and Markree Castle. The temperature of the soil was above the average at a depth of 4 feet, and at a great majority of the stations it was also above at a depth of 1 foot.

Mean Temperature of the Sea. The water was warmer than during the corresponding week of last year on all parts of the coast, and except at Wick and Scarborough the temperature was above the normal. The mean for the week ranged from about 57½° at Eastbourne, Plymouth and Salcombe to about 50° at Burnmouth and Scarborough.

Rainfall exceeded the normal in England South-East and the English Channel, and also in Ireland and Scotland North, but was less elsewhere, the deficit being large in many localities. On the 19th about 1·1 in. fell at Armagh and Carrick-on-Suir, and on the 24th 1·6 in. at Fort William and 2·7 in. at Glencarron. In some parts of the Midlands and England North-East the total fall was less than 0·1 in.

Bright Sunshine was more than the average, especially in Scotland East and in Ireland. In Ireland South the daily mean was 6 hours, and in Ireland North rather more than 5 hours, the percentage of the possible duration being respectively 60 and 52. In England South-East and the Midland Counties the daily mean was less than 3·5 hours, and in Scotland North no more than 2·5 hours. The percentage of the possible in Scotland North was as low as 27.

Barometer and Wind. Until Wednesday the pressure distribution over these Islands and their neighbourhood was cyclonic, large depressions travelling northwards and north-eastwards on the Atlantic to the westward and north-westward of this country. The main wind current was Southerly to South-Westerly, and its force light or moderate. On the extreme north-western and northern coasts, however, it occasionally increased to a gale. From Thursday to the end of the week an anticyclone from the Atlantic passed eastwards over the United Kingdom, the wind becoming Easterly or North-Easterly in the south, South-Westerly to Westerly in the north, and very light and variable over the intervening regions.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 171.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Unusual	Moderate	Moderate	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Deficient	Unusual
	Rainfall ...	Heavy	Moderate	Very light	Moderate	Light	Moderate	Moderate	Light	Light	Moderate	Moderate	Heavy
	Sunshine ...	Moderate	Very abundant	Abundant	Abundant	Abundant	Moderate	Abundant	Very abundant	Abundant	Very abundant	Very abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 8 weeks from Aug. 31st, 1913.	Warmth ...	3 * 0	4 * 0	4 * 0	5 * 0	6 * 0	6 * 0	3 * 0	5 * 0	5 * 0	4 * 0	5 * 2	6 * 0
	Rainfall ...	1 * 4	2 * 3	3 * 3	3 * 4	3 * 2	3 * 4	1 * 3	2 * 5	2 * 4	2 * 2	4 * 1	2 * 2
	Sunshine ...	3 * 3	2 * 6	2 * 3	2 * 1	1 * 3	3 * 2	1 * 4	3 * 3	2 * 4	1 * 4	1 * 5	2 * 3

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(32285—24.) Wt. 196—785. 450. 10/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*54*	*19, 20*	*31*	*23rd*	*50·1*	*39·4*	*44·6*	—	*29*	*7*	•	•	47·2	•	•	•	*7*	*0·70*	—	*1·3*	—	*14*	—	*Baltasound.*
a Islands .. *a* Lerwick ..	55	20th	31	23rd	50·7	41·9	46·2	+ 1·2	30	0	•	•	•	•	•	•	7	1·08	—	2·4	0·0	26	— 0	Deerness.
a Stornoway ..	57	19th	33	23rd	50·6	41·7	46·0	+ 0·9	29	1	•	•	•	•	•	•	7	3·01	+ 1·68	1·9	— 0·5	20	— 6	Stornoway.
a Castlebay, Barra Isd.‡ ..	*57*	*19th*	*34*	*23rd*	*51·6*	*43·3*	*47·3*	*— 0·1*	*37*	*0*							7	*2·11*	—	*1·8*	—	*19*	—	*Castlebay.*
a Wick	58	19th	32	23, 24	52·0	42·4	47·1	+ 2·0	36	0	•	•	•	•	•	•	6	0·83	+ 0·11	•	•	•	•	•
p Strathpeffer ..	63	19th	32	23rd	54·7	40·0	47·1	+ 2·9	44	6	•	•	•	•	•	•	5	0·24	— 0·41	3·7	+ 1·1	39	+11	Strathpeffer.
b, Main- *p* Glencarron ..	62	19th	31	23rd	50·2	39·5	44·7	+ 1·3	29	7	•	•	•	•	•	•	7	5·68	+ 3·55	•	•	•	•	•
land. *p* Fort Augustus..	63	19th	30	23rd	52·4	39·9	46·0	+ 1·2	37	6	•	•	•	•	•	•	4	1·21	+ 0·24	2·0	+ 0·2	21	+ 2	Fort Augustus.
p Fort William ..	61	19th	32	23rd	51·9	40·3	45·9	+ 0·2	34	5	•	•	•	•	•	•	7	2·96	+ 1·19	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle.. S	63	19th	31	23rd	55·6	38·4	46·8	+ 1·6	49	10	2	26	49·0	+1·3	51·4	+1·1	—	—	—	4·8	—	50	—	Crathes S.
a Nairn	63	19th	30	23, 24	52·9	39·0	45·7	+ 0·8	39	8	•	•	•	•	•	•	4	0·39	— 0·38	*4·1*	—	*43*	—	*Gordon Castle*
a Aberdeen ..	60	25th	33	24th	54·1	41·3	47·5	+ 2·0	41	2	•	•	•	•	•	•	5	0·32	— 0·21	3·8	—	40	—	Nairn.
a Balmoral ..	61	19, 21	28	23rd	57·6	38·1	47·6	+ 6·1	56	11	3	24	•	•	•	•	4	0·29	— 0·38	4·5	+ 1·6	47	+17	Aberdeen.
p Crieff	60	19th	33	24th	52·1	39·3	45·5	+ 0·2	36	8	•	•	•	•	•	•	5	0·57	— 0·31	•	•	•	•	Balmoral.
a Leith	63	19th	35	24th	53·4	43·7	48·4	+ 1·5	45	0	•	•	•	•	•	•	3	0·48	— 0·44	5·1	—	53	—	Balrudd'ery.
p West Linton .. S	62	19th	25	24th	51·3	34·9	42·9	— 0·7	26	20	3	19	•	•	•	•	2	0·10	— 0·37	•	•	•	•	•
p Marchmont .. S	65	19th	29	24th	52·9	38·0	45·2	+ 1·1	39	11	2	25	47·6	+1·1	•	•	4	0·22	—	*4·7*	—	*49*	—	*West Linton.*
																	3	0·54	— 0·29	4·2	+ 2·4	43	+25	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	60	19, 20, 25	31	24th	54·0	41·6	47·6	+ 1·8	41	1	2	25	45·4	— 0·7	50·3	+1·0	2	0·19	— 0·66	4·5	—	46	—	Cockle Park.
a Shields	61	19th	32	24th	54·3	41·9	47·9	+ 1·1	42	0	•	•	•	•	•	•	2	0·09	— 0·59	•	•	•	•	•
p Durham	58	19th	28	24th	52·4	38·7	45·4	— 0·1	38	9	1	23	•	•	•	•	2	0·13	— 0·59	3·5	+ 0·9	36	+ 9	Durham.
a, North .. *p* Rounton	60	19th	29	24th	53·9	39·3	46·4	+ 1·5	42	8	4	23	49·4	•	•	•	5	0·24	— 0·49	•	•	•	•	Rounton.
a West Witton ..	*63*	*19th*	*27*	*24th*	*53·1*	*39·3*	*46·0*	—	*39*	*8*	3	22	47·8	•	50·8	•	2	*0·21*	—	•	•	•	•	*West Witton.*
p Scarborough ..	62	20th	34	24th	54·6	42·4	48·3	+ 0·9	44	0	•	•	•	•	54·5†	+0·6	4	0·18	— 0·57	4·2	—	42	—	Scarborough.
p York	63	20th	31	24th	55·4	39·3	47·1	+ 0·6	47	8	•	•	50·4	—0·1	53·5	+0·8	2	0·07	— 0·51	2·8	+ 0·4	28	+ 4	York.
											3	25	47·7	—1·2	53·6	+0·9	—	—	—	*2·0*	—	*20*	—	*Hull.*
a Spurn Head	63	20th	40	24th	57·0	45·1	50·9	+ 2·5	62	0	•	•	•	•	•	•	3	0·17	— 0·36	*3·6*	—	*36*	—	*Spurn Head.*
b, South .. *a* Lincoln	63	20th	32	24, 25	54·4	40·6	47·3	+ 0·7	43	4	•	•	48·5	—1·2	54·2	+1·3	1	0·24	— 0·31	•	•	•	•	Lincoln.
a Fulbeck	60	20th	29	24th	53·9	39·3	46·4	+ 0·1	42	8	4	21	50·2	+0·7	54·2	+0·8	2	0·29	— 0·26	3·7	—	37	—	Rauceby.
											•	•	•	•	•	•	—	—	—	4·2	—	42	—	Skegness.
											0	32	51·4	0·0	55·2	+0·4	—	—	—	*4·1*	—	*41*	—	*Lowestoft.*
3. ENGLAND, E.																								
p Cromer	62	20th	40	24th	56·9	43·9	50·2	+ 2·9	57	0	•	•	•	•	•	•	2	0·46	—	4·7	—	47	—	Cromer.
p Little Massingham ..	59	20, 25	34	24th	54·9	41·6	48·1	+ 1·3	44	1	0	33	•	•	•	•	2	0·48	— 0·20	4·2	—	42	—	Lit. Massingham.
a, North .. *a* Yarmouth ..	61	20th	39	24th	57·0	45·7	51·2	+ 3·2	64	0	•	•	51·3	+0·2	55·0	—0·1	3	0·68	0·00	3·9	—	39	—	Yarmouth.
a Norwich	60	20th	32	25th	54·9	40·6	47·5	+ 1·1	44	4	2	27	49·2	•	•	•	4	0·62	—	*4·3*	•	*43*	•	*Norwich.*
p Geldeston	61	20th	29	25th	57·7	40·1	48·6	+ 0·9	54	5	•	•	•	•	•	•	5	0·69	+ 0·04	4·2	+ 1·1	42	+11	Geldeston.
p Cambridge	62	20th	29	25th	57·6	39·3	48·2	+ 1·1	55	8	2	28	50·9	+0·2	55·4	+0·8	2	0·36	— 0·17	4·5	+ 1·4	45	+14	Cambridge.
a Felixstowe ..	*60*	*19, 20*	*36*	*24th*	*57·6*	*44·9*	*51·1*	*+ 2·2*	*64*	*0*	•	•	•	•	•	•	*2*	*0·62*	—	*4·0*	—	*40*	—	*Felixstowe.*
a Clacton-on-Sea ..	59	20th	37	24, 25	57·0	45·7	51·2	+ 2·3	64	0	0	33	52·8	—0·7	56·4	+1·1	2	0·73	—	3·7	—	37	—	Clacton.
b, South .. *a* Rothamsted ..	60	20, 25	31	24, 25	56·0	40·3	47·9	+ 1·8	48	5	•	•	•	•	•	•	4	0·54	— 0·13	4·6	+ 1·5	46	+15	Rothamsted.
a Shoeburyness ..	*62*	*20th*	*35*	*25th*	*56·6*	*44·1*	*50·2*	*+ 1·0*	*57*	*0*	0	35	53·7	+0·5	•	•	*2*	*1·05*	+ *0·59*	*3·0*	—	*30*	—	*Southend.*
p Tottenham	59	19th	35	25th	55·3	43·7	49·3	+ 1·6	51	0	0	32	•	•	57·1	+0·8	2	0·60	—	2·1	—	21	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	60	19th	30	24th	52·3	40·1	46·0	+ 0·6	36	5	4	28	47·7	—1·7	52·4	+0·5	—	—	—	*3·3*	—	*33*	—	*Huddersfield.*
a Bawtry	62	20th	30	25th	55·1	40·0	47·3	+ 1·3	46	6	3	25	49·0	+0·1	51·4	+1·1	4	0·14	— 0·60	3·6	—	36	—	Harrogate.
p Buxton	*58*	*19, 20*	*30*	*25th*	*51·4*	*38·7*	*44·9*	*+ 1·2*	*34*	*9*	4	23	49·2	•	52·5	•	1	0·07	— 0·45	2·7	+ 0·3	27	+ 3	Worksop.
a, East .. *a* Nottingham ..	63	19, 20	30	24th	54·9	38·3	46·4	— 0·3	46	10	4	28	47·6	—1·2	53·5	+0·4	*2*	*0·07*	— *1·16*	*3·4*	—	*34*	—	*Buxton.*
p Birmingham, Edgbsn.	61	19th	35	25th	55·0	42·6	48·6	+ 2·1	46	0	4	22	49·1	+0·6	52·1	+0·5	2	0·13	— 0·40	2·7	—	27	—	Nottingham.
a Raunds	66	26th	28	24, 25	57·7	38·4	47·8	+ 1·3	56	10	3	23	52·1	•	55·1	•	1	0·01	— 0·59	3·5	—	35	—	Birmingham.
p Oxford	63	20th	32	25th	57·3	42·6	49·7	+ 2·5	54	0	2	29	•	•	•	•	1	0·34	—	•	•	•	•	Raunds.
											3	23	52·1	•	•	•	3	0·56	— 0·04	3·7	+ 0·8	37	+ 8	Oxford.
											1	30	49·7	+0·5	52·6	+0·5	—	—	—	3·3	—	33	—	Sheffield.
a Cheadle	59	19th	32	25th	53·4	40·9	47·0	+ 1·8	40	3	2	26	•	•	•	•	1	0·06	— 0·64	•	•	•	•	Cheadle.
p Shrewsbury ..	64	19th	29	25th	56·1	39·0	47·3	+ 0·4	50	8	4	25	•	•	•	•	3	0·44	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	65	19th	31	25th	54·4	39·3	46·6	— 0·4	44	8	3	25	•	•	•	•	2	0·10	— 0·49	•	•	•	•	Hereford.
a Cirencester ..	66	19th	32	22nd	55·3	41·0	47·9	+ 2·2	46	3	0	32	51·8	•	54·2	•	3	0·18	— 0·50	3·5	+ 0·6	35	+ 6	Cirencester.
a Bath	66	19th	35	25th	57·7	42·1	49·7	+ 1·5	54	0	•	•	•	•	•	•	3	0·12	— 0·55	4·5	—	45	—	Bath.
5. ENGLAND, S.E.																								
p Kew	61	20th	37	23, 25	56·9	42·9	49·7	+ 2·2	54	0	4	28	52·2	+0·8	55·7	+1·2	—	—	—	•	•	•	•	Canterbury.
a Marlborough ..	61	20th	32	23rd	56·0	40·9	48·2	+ 2·6	48	3	0	32	52·1	+1·0	54·9	+0·5	2	0·58	— 0·02	2·7	0·0	27	0	Kew.
a Margate	61	19th	39	23, 25	57·6	45·3	51·3	+ 1·9	65	0	3	27	•	•	54·8	•	2	0·32	— 0·45	3·2	+ 0·4	32	+ 4	Marlborough.
a Wisley, Surrey ..	62	20th	35	23, 25	56·9	42·6	49·5	+ 1·2	53	0	0	38	53·3	+2·8	55·0	+0·6	2	0·94	+ 0·31	3·2	+ 0·1	32	+ 1	Margate.
											3	27	51·9	+1·2	54·5	0·0	2	0·58	—	3·0	—	30	—	Wisley.
											0	38	54·1	+1·1	57·0	+0·9	—	—	—	3·9	—	39	—	Worthing.
p Salisbury (Wilton) ..	64	25th	33	25th	59·3	41·3	50·0	+ 2·8	59	2	0	31	53·0	•	•	•	3	0·44	— 0·36	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	61	25th	40	24th	58·6	45·9	52·1	+ 1·9	71	0	•	•	•	•	•	•	2	1·10	+ 0·41	3·1	—	31	—	Littlestone.
p Hastings.. ..	63	25th	40	24th	59·0	46·9	52·8	+ 2·9	76	0	0	38	53·8	•	56·7	•	3	1·60	+ 0·77	*3·4*	— *0·1*	*34*	— *1*	*Hastings.*
p Southampton	65	25th	40	24th	58·7	45·9	52·1	+ 2·8	71	0	0	36	•	•	•	•	3	0·91	+ 0·09	3·1	— 0·1	31	— 1	Southampton.
a Ventnor	61	19, 20, 25	40	24th	58·7	49·4	53·9	+ 2·8	83	0	0	36	•	•	•	•	3	1·05	+ 0·51	4·2	+ 0·7	42	+ 7	Ventnor.
											1	30	54·4	+1·9	56·9	+0·8	—	—	—	*3·8*	—	*38*	—	*Portsmouth.*
											•	•	55·4	•	57·6	•	—	—	—	3·6	+ 0·2	36	+ 2	Eastbourne.
											•	•	53·2	•	55·7	•	—	—	—	*4·6*	—	*46*	—	*Bournemouth.*
LONDON.											0	37	•	•	57·6	•	—	—	—	*3·6*	+ *0·1*	*36*	+ *1*	*Brighton.*
a Westminster	*62*	*19, 20*	*40*	*25th*	*58·1*	*46·1*	*51·9*	*+ 4·5*	*69*	*0*	0	32	•	•	•	•	*2*	*0·54*	— *0·05*	*1·9*	*0·0*	*19*	*0*	*Westminster.*
a Greenwich	*62*	*20th*	*36*	*23rd*	*57·7*	*43·1*	*50·2*	*+ 2·6*	*57*	*0*	2	28	•	•	•	•	*2*	*0·69*	+ *0·13*	*3·0*	+ *0·4*	*30*	+ *4*	*Greenwich.*
a Hampstead	*60*	*20th*	*36*	*24th*	*55·6*	*44·0*	*49·6*	—	*53*	*0*	4	23	•	•	•	•	*2*	*0·78*	—	*2·8*	—	*28*	—	*Hampstead.*
a Camden Square ..	*63*	*20th*	*37*	*23, 24, 25*	*57·7*	*43·7*	*50·5*	—	*60*	*0*	0	35	•	•	•	•	*2*	*0·62*	—	*2·2*	—	*22*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	56	19th	30	24th	50·6	40·1	45·2	— 1·3	30	5	•	•	•	•	•	•	6	1·66	+ 0·50	•	•	•	•	•
p Glasgow	60	19th	34	24th	51·3	42·1	46·6	+ 1·3	32	0	3	23	•	•	•	•	6	0·39	— 0·39	2·9	+ 1·0	30	+10	Glasgow.
p Rothesay .. S	58	19th	34	23, 24	51·1	40·6	45·7	— 0·8	32	4	1	28	49·6	•	51·6	+1·0	5	0·75	— 0·23	•	•	•	•	•
a Kilmarnock ..	62	19th	27	24th	52·7	41·4	46·9	+ 1·1	37	2	•	•	•	•	•	•	5	0·32	—	*3·9*	—	*40*	—	*Kilmarnock.*
a Colmonell ..	60	19th	27	24th	53·9	40·4	47·0	+ 1·0	42	4	2	18	•	•	•	•	4	0·71	— 0·37	•	•	•	•	•
p Dumfries	65	19th	28	24th	53·4	38·7	45·8	— 0·3	40	9	3	24	50·1	•	53·6	•	5	0·38	— 0·47	*3·7*	—	*38*	—	*Dumfries.*
p Cally, Gatehouse ..	59	19th	25	24th	52·1	37·6	44·6	— 1·3	37	12	•	•	•	•	•	•	3	0·41	— 0·73	•	•	•	•	•
b I. OF MAN																								
p Douglas	64	19th	33	24th	54·1	41·6	47·7	+ 0·2	42	1	1	28	•	•	•	•	5	0·48	— 0·58	5·2	+ 2·2	53	+22	Douglas.
											3	25	48·7	+0·6	52·4	+1·1	—	—	—	*3·4*	—	*34*	—	*Burnley.*
											1	30	•	•	•	•	—	—	—	4·3	—	43	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	67	19th	28	24th	53·7	39·0	46·1	+ 0·2	41	8	1	24	50·0	•	52·3	•	3	0·66	— 0·27	3·8	—	39	—	Aspatria.
p Newton Rigg	61	19th	25	24th	53·1	37·3	45·0	+ 0·4	41	13	4	21	49·1	0·0	51·7	+0·6	4	0·64	— 0·23	3·8	+ 1·3	39	+14	Newton Rigg.
p Stonyhurst	62	19th	32	24th	52·7	40·1	46·2	+ 0·6	37	5	4	21	•	•	•	•	3	0·37	— 0·70	3·2	+ 0·7	32	+ 7	Stonyhurst.
p Blackpool	63	19th	33	24th	54·7	39·7	47·0	— 0·5	45	6	2	27	51·2	•	53·7	•	5	0·64	— 0·23	4·4	+ 1·8	44	+18	Blackpool.
p Manchester (Whit. Pk.)	66	19th	32	25th	54·8	41·6	48·0	+ 1·5	44	1	•	•	•	•	•	•	3	0·26	— 0·46	*3·3*	—	*33*	—	*Whit. Park.*
a Liverpool (Bidston) ..	62	19th	36	25th	52·6	41·0	46·6	— 1·5	36	3	•	•	•	•	•	•	4	0·53	— 0·22	*4·0*	—	*41*	—	*Liverpool.*
a Hawarden Bridge ..	64	19th	33	23, 24, 25	54·3	40·9	47·4	— 0·9	42	3	3	24	47·6	—1·0	52·9	+0·3	3	0·54	— 0·13	*3·8*	+ *1·3*	*32*	+*14*	*Southport.*
											2	28	50·5	+0·8	56·9	+2·9	—	—	—	*2·9*	—	*29*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	68	19th	38	24th	56·1	42·7	49·2	— 0·3	50	0	•	•	•	•	•	•	2	0·30	— 0·54	4·6	+ 2·1	47	+21	Llandudno.
a Holyhead	63	19th	37	24, 25	55·4	44·9	50·0	+ 0·5	56	0	•	•	•	•	•	•	5	0·59	— 0·31	*4·7*	—	*48*	—	*Holyhead.*
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	5·9	—	59	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.
‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	67	19th	28	25th	55·7	36·3	45·7	+ 0·2	50	16	3	26	48·9	−1·0	53·3	+0·5	4	0·96	—	5·5	—	55	—	Aberystwyth.
a Pembroke	61	19th	42	24, 25	56·1	46·0	50·9	+ 0·5	62	0	•	•	•	•	•	•	4	0·73	− 0·16	3·6	+ 0·6	36	+ 6	Pembroke.[Wells
p Cardiff	64	19th	38	24th	55·4	43·9	49·5	+ 2·3	53	0	1	30	52·3	+1·6	55·5	+1·6	4	0·18	− 0·86	*4·0*	—	*40*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	65	19th	39	24th	55·9	45·9	50·8	+ 3·1	62	0	0	35	•	•	•	•	2	0·04	− 0·79	*4·6*	—	*46*	—	*Clifton.*
a Shaftesbury	61	25th	35	24th	56·0	43·3	49·5	+ 2·2	53	0	•	•	52·5	•	56·0	•	2	0·42	− 0·39	•	•	•	•	Shaftesbury.
a Arlington	65	25th	35	24th	57·1	42·1	49·4	+ 2·0	52	0	•	•	•	•	•	•	3	0·72	− 0·76	•	•	•	•	Arlington.
a Newquay	*64*	*25th*	*38*	*22nd*	*56·9*	*44·4*	*50·5*	− *0·2*	*60*	*0*	•	•	53·7	•	•	•	*5*	*0·61*	− *0·14*	3·7	+ 0·4	37	+ 4	Newquay.
a Cullompton	65	25th	31	22nd	57·3	42·7	49·8	+ 1·8	55	0	3	26	52·7	•	•	•	5	0·17	− 0·69	3·2	+ 0·4	32	+ 4	Cullompton.
a Portland	62	19th	43	24th	58·0	50·7	54·2	+ 3·2	85	0	•	•	•	•	•	•	4	0·43	—	*4·7*	—	*47*	—	*Weymouth.*
p Plymouth	64	19th	43	22nd	58·9	48·9	53·8	+ 3·5	83	0	0	36	53·7	+0·8	•	•	5	0·50	− 0·36	4·0	+ 0·8	40	+ 8	Plymouth.
a Falmouth	61	19, 25	39	22nd	56·6	45·0	50·6	− 0·1	60	0	0	31	•	•	•	•	4	0·60	− 0·50	2·1	− 1·5	21	−15	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	60	19th	39	23rd	51·3	42·9	47·0	− 0·9	35	0	•	•	•	•	•	•	4	0·74	+ 0·01	•	•	•	•	•
a Blacksod Point ..	59	19th	35	24th	51·9	41·9	46·8	− 2·3	34	0	•	•	•	•	•	•	5	2·29	+ 1·11	•	•	•	•	•
p Markree Castle ..	59	19th	27	25th	52·4	34·4	43·1	− 3·2	40	21	4	21	51·8	•	54·7	•	3	0·74	− 0·21	4·4	+ 1·8	44	+18	Markree Castle.
a Birr Castle	59	19th	24	24, 25	52·3	34·7	43·2	− 2·9	39	20	•	•	•	•	•	•	3	0·37	− 0·28	*5·8*	+ *2·9*	*59*	+*29*	*Birr Castle.*
b, East .. *p* Armagh	61	19th	29	24th	52·3	37·7	44·8	− 1·5	38	12	4	22	51·0	+0·8	53·9	+1·0	4	1·39	+ 0·76	5·8	+ 3·1	59	+31	Armagh.
a Donaghadee	65	25th	34	23, 24, 25	54·0	39·7	46·6	− 1·2	42	6	•	•	•	•	•	•	3	0·55	− 0·11	•	•	•	•	•
											4	26	51·0	+0·2	54·5	+1·3	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											4	22	•	•	•	•	—	—	—	6·8	+ 3·6	69	+36	Phœnix Park.
p Dublin, City	64	19th	30	24th	51·9	39·3	45·4	− 2·9	35	8	1	28	•	•	•	•	3	0·45	− 0·15	•	•	•	•	Dublin City.
a, East .. *a* Kilkenny	59	19th	25	24th	53·9	35·4	44·4	− 2·5	45	18	•	•	•	•	•	•	4	1·07	+ 0·40	•	•	•	•	•
a Waterford	59	19th	29	24th	54·1	37·6	45·6	− 2·6	44	12	•	•	•	•	•	•	3	1·05	+ 0·22	•	•	•	•	•
a Carrick-on-Suir ..	*57*	*19, 25*	*28*	*24th*	*51·7*	*38·3*	*44·8*	—	*35*	*10*	*3*	*20*	•	•	•	•	*4*	*1·48*	—	*6·0*	—	*61*	—	*Carrick-on-Suir.*
a Birr Castle	59	19th	24	24, 25	52·3	34·7	43·2	− 2·9	39	20	•	•	•	•	•	•	3	0·37	− 0·28	5·8	+ 2·9	59	+29	Birr Castle.
b, West .. *a* Foynes	62	19th	28	24th	52·6	37·9	45·0	− 3·4	38	11	•	•	•	•	•	•	5	1·14	+ 0·29	•	•	•	•	•
a Cahir	59	19th	24	24th	53·0	34·9	43·7	− 4·3	42	20	•	•	•	•	•	•	3	0·73	—	•	•	•	•	•
a Killarney	60	25th	26	24th	54·9	36·7	45·5	− 3·0	47	15	•	•	•	•	•	•	4	0·95	− 0·29	•	•	•	•	•
a Valencia	63	25th	30	24, 25	53·3	38·7	45·8	− 4·6	40	9	•	•	•	•	•	•	4	1·48	+ 0·25	5·3	+ 2·2	53	+22	Valencia.
a Roche's Point ..	59	19th	34	24, 25	53·7	41·1	47·2	− 2·8	40	3	•	•	•	•	•	•	7	1·09	+ 0·17	5·9	—	59	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	60	19th	45	22, 23	56·7	49·0	52·7	+ 0·1	75	0	•	•	•	•	•	•	4	0·80	0·00	2·8	− 0·7	28	− 6	Scilly.
a Jersey, St. Aubins ..	65	25th	47	22, 24	59·4	50·1	54·6	+ 2·0	88	0	•	•	•	•	•	•	3	1·51	+ 0·48	4·4	+ 0·7	44	+ 7	St. Heliers.
a Guernsey (Villa Carey)	67	25th	44	22nd	60·7	50·0	55·2	+ 2·7	92	0	0	41	55·2	+0·5	58·3	+0·7	3	1·59	+ 0·54	4·7	+ 1·4	47	+14	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·8 hrs. 38 %; Ramsgate, 3·5 hrs. 35 %; Rhyl, 4·8 hrs. 49 %; Salcombe, 3·4 hrs. 34 %; Tenby, 3·5 hrs. (+0·4) 35 % (+4); Torquay, 2·5 hrs. (−0·7) 25 % (−7).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, October 25th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	52	50	51·1	+1·5	SCOTLAND, W. ..	Lamlash	53	50	51·6	+0·1
	Kirkwall	52	49	51·0	+3·0		Ballantrae	54	52	52·8	+2·6
	Wick	52	50	50·9	−0·4	ENGLAND, N.W. ..	Port Erin	56	54	54·9	+1·8
	Cromarty	52	47	50·2	+0·3		Newquay	57	56	56·7	+0·2
SCOTLAND, E. ..	Pennan Bay	53	48	50·8	+1·7	ENGLAND, S.W. ..	Scilly	57	55	56·5	—
	Aberdeen, Cove Bay	53	52	52·4	+2·5		Plymouth‡	58	57	57·4	+1·5
ENGLAND, N.E. ..	Burnmouth, Berwick	52	48	49·9	+0·5		Salcombe	60	55	57·4	+1·5
	Scarborough	52	47	49·9	−1·0	IRELAND, N.W. ..	Sheephaven	55	50	53·0	+0·3
ENGLAND, E. ..	Shipwash Lightship	59	54	57·0	+1·5		Teelin	56	50	52·8	+0·8
ENGLAND, S.E. ..	Eastbourne‡	58	57	57·3	+2·1	IRELAND, S.W. ..	Cleggan	57	54	55·5	+4·7
							Seafield	58	50	54·4	+1·5

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for tha week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-THIRD WEEK—October 19th to October 25th, 1913.

DISTRICTS, (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	63	30	51·8	40·8	46·1	+ 1·2	34	+ 4	3	− 8	6	+ 1	2·14	+0·95	2·5	+0·2	27	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	65	25	53·7	39·1	46·2	+ 2·3	42	+ 10	8	− 6	4	0	0·36	−0·32	4·5	+1·9	47	+20
2. ENGLAND, N.E.	63	28	54·4	40·9	47·5	+ 1·1	43	+ 5	3	− 3	3	− 1	0·18	−0·55	3·8	+1·2	39	+12
3. ENGLAND, EAST ...	62	29	56·4	42·3	49·1	+ 2·0	50	+ 6	0	− 7	3	− 1	0·57	−0·05	4·0	+1·0	40	+10
4. MIDLAND COUNTIES ...	66	28	55·4	40·4	47·7	+ 1·6	47	+ 7	4	− 5	2	− 2	0·20	−0·45	3·4	+0·9	34	+ 9
5. ENGLAND, S.E.	65	32	58·0	44·6	51·1	+ 2·5	64	+ 12	0	− 5	2	− 2	0·84	+0·07	3·3	+0·3	33	+ 3
Western.																		
6. SCOTLAND, WEST ...	65	25	52·4	40·3	46·2	+ 0·1	37	− 1	5	− 3	5	+ 1	0·64	−0·47	4·1	+1·6	41	+16
7. ENGLAND, N.W.	68	25	54·2	40·8	47·3	+ 0·1	42	− 1	3	− 2	4	0	0·50	−0·36	4·3	+1·8	43	+18
8. ENGLAND, S.W.	67	28	56·7	44·5	50·4	+ 1·6	59	+ 7	0	− 4	4	0	0·48	−0·55	3·7	+0·8	37	+ 8
9. IRELAND, NORTH ...	65	24	52·4	38·6	45·3	− 1·3	37	− 3	10	+ 4	4	− 1	1·01	+0·16	5·1	+2·3	52	+23
10. IRELAND, SOUTH ...	64	24	53·3	37·4	45·1	− 3·0	41	− 8	13	+ 8	4	0	0·93	+0·04	6·0	+3·0	60	+30
11. ENGLISH CHANNEL ...	67	44	58·9	49·7	54·2	+ 1·9	85	+ 13	0	0	3	− 2	1·30	+0·38	4·0	+0·5	39	+ 5

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 8 Weeks, August 31st to October 25th, 1913.

0. SCOTLAND, NORTH ...	71	30	*	*	*	*	507	+ 81	9	−23	30	− 9	5·92	−3·21	2·9	0·0	25	0
Eastern.																		
1. SCOTLAND, EAST ...	74	25	*	*	*	*	519	+ 62	16	−24	27	− 5	3·92	−1·09	2·8	−0·6	24	− 6
2. ENGLAND, N.E.	79	28	*	*	*	*	677	+139	3	−13	28	− 1	4·37	−0·10	3·5	−0·3	31	− 2
3. ENGLAND, EAST ...	76	29	*	*	*	*	770	+155	0	−20	27	− 1	4·35	+0·05	4·2	0·0	36	0
4. MIDLAND COUNTIES ...	79	28	*	*	*	*	702	+141	4	−23	25	− 3	5·01	+0·52	3·2	−0·5	27	− 5
5. ENGLAND, S.E.	76	32	*	*	*	*	815	+135	0	−13	24	− 3	6·02	+1·00	4·2	−0·1	36	− 1
Western.																		
6. SCOTLAND, WEST ...	73	25	*	*	*	*	597	+ 92	5	−17	25	− 7	4·80	−3·43	2·9	−0·6	25	− 6
7. ENGLAND, N.W.	79	25	*	*	*	*	703	+131	3	− 8	23	− 7	4·49	−1·84	3·6	+0·1	31	0
8. ENGLAND, S.W.	78	28	*	*	*	*	777	+134	0	− 9	27	− 4	6·39	−0·54	3·6	−0·5	31	− 4
9. IRELAND, NORTH ...	71	24	*	*	*	*	652	+123	10	− 4	31	− 5	5·99	−0·42	3·1	−0·2	27	− 2
10. IRELAND, SOUTH ...	73	24	*	*	*	*	722	+124	13	+ 1	34	+ 3	7·97	+1·89	3·4	−0·5	29	− 4
11. ENGLISH CHANNEL ...	77	43	*	*	*	*	927	+119	0	0	28	− 6	5·15	−0·81	5·2	+0·2	44	+ 1

THE YEAR.—Aggregates, &c., for the Period of 43 Weeks, December 29th, 1912, to October 25th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	2,038	+ 58	433	−156	179	−20	34·63	−5·91	3·1	−0·4	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	2,190	− 37	617	− 43	156	− 9	21·30	−3·28	3·6	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	2,607	+119	409	− 82	146	− 3	18·69	−1·24	3·8	−0·7	29	− 5
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,006	+131	303	−238	140	− 4	17·36	−1·85	4·2	−0·7	33	− 5
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,880	+ 83	396	−164	140	− 3	21·94	+0·69	3·5	−0·8	27	− 6
5. ENGLAND, S.E.	84	22	*	*	*	*	3,160	+ 61	221	−173	133	− 4	21·25	+0·12	4·4	−0·5	34	− 4
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,454	+ 46	328	−119	163	− 9	31·60	−5·48	3·7	−0·5	28	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,714	+ 75	301	− 96	156	− 2	26·80	−0·74	4·0	−0·3	31	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	3,024	+ 89	221	− 89	157	+ 1	30·19	+0·61	4·3	−0·5	33	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,522	+ 6	307	− 52	183	− 5	30·18	−0·09	3·6	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,910	+ 26	256	− 15	186	+20	35·50	+4·24	4·0	−0·4	31	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,462	+ 68	38	− 71	156	−11	23·42	−1·22	5·0	−0·8	39	− 7

M.O., October 29, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 173

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. *Vol. XXX. (New Series.)* } No. 44. FORTY-FOURTH WEEK, SUNDAY, OCTOBER 26TH, TO SATURDAY, NOVEMBER 1ST, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The conditions generally were very changeable. Rain occurred frequently in all districts, but in many localities a measurable quantity was recorded every day. There were, however, several very fine intervals, especially in England and Scotland. Thunderstorms were experienced on various occasions, and were locally of considerable severity. At Cullompton a violent storm in the afternoon of October 27th was accompanied by extremely heavy hail. A whirlwind of terrific force passed over a narrow area in South Wales on the evening of the same day, and occasioned much structural damage and some loss of life. The storm was of very brief duration, but was accompanied by extremely heavy rain.

Temperature was above the average, the divergence being about 7° in England East, and more than 5° over the major portion of Britain. The highest of the maxima were recorded, as a rule, during the first half of the period, and ranged from 65° in the Midland Counties to 59° in Scotland West. The lowest of the minima occurred either at the beginning or end of the week. The values ranged from 28° in Ireland North and 30° in Ireland South and Scotland East to 39° in England East and to 46° in the English Channel. The lowest grass readings were 22° at Markree Castle, 27° at West Linton, 28° at Balmoral and 38° at Marchmont, Worksop, Hampstead and Cullompton. The temperature of the soil at a depth of 1 foot and 4 feet was above the average very generally.

Mean Temperature of the Sea. The water was warmer than during the corresponding week of last year on all parts of the coast, and at nearly all stations its temperature exceeded the average. The means for the week ranged from a little above 57° at the Shipwash Lightship and Salcombe to 49°·7 at Burnmouth.

Rainfall was more than the average except in Scotland East and England North-East, the excess being considerable in most districts. On October 26th a fall of 1·02 in. was registered at Eastbourne, and of 1·15 in. at Southend-on-Sea, and on the 28th an inch fell at Falmouth.

Bright Sunshine exceeded the normal generally, but in Ireland North only equalled it and was below it in England South-West, Scotland W., and Ireland South. Over a large portion of England and in Scotland East the daily mean was about 3 hours—as high as 3·2 hours in England North-East, where the percentage of the possible amount was 34. In Scotland West the daily mean was 2 hours, and the percentage of the possible 21.

Barometer and Wind. Large cyclonic systems, moving in a general northerly direction on the Atlantic, extended over these islands, and the main wind current was from some point between South-East and South. Gales or high winds were of rather frequent occurrence on exposed parts of our south-west, west and north-west coasts, and at times the wind increased considerably in force over these islands generally. Late in the week, when a cyclonic minimum was travelling north-eastwards between Scotland and Iceland, the wind veered to the South-Westward generally and decreased somewhat in force.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 175.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Very unusual	Unusual	Very unusual	Very unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Heavy	Moderate	Light	Heavy	Heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Heavy	Moderate
	Sunshine ...	Abundant	Abundant	Abundant	Moderate	Abundant	Moderate	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 9 weeks from Aug. 31st, 1913.	Warmth ...	4 * 0	5 * 0	5 * 0	6 * 0	7 * 0	7 * 0	4 * 0	6 * 0	6 * 0	5 * 0	6 * 2	7 * 0
	Rainfall ...	2 * 4	2 * 3	3 * 4	4 * 4	4 * 2	4 * 4	1 * 3	2 * 5	2 * 4	2 * 2	5 * 1	2 * 2
	Sunshine ...	4 * 3	3 * 6	3 * 3	2 * 1	2 * 3	3 * 2	1 * 4	4 * 3	2 * 4	1 * 4	1 * 5	2 * 3

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(32392—24.) Wt. 196—786. 450. 11/13. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Dav°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*53*	*27, 29*	*39*	*28th*	*51·9*	*45·1*	*48·4*	—	*45*	*0*	•	•					*7*	*1·21*	—	*1·5*	—	*17*	—	*Baltasound.*
a Lerwick	55	27th	43	26, 28	52·1	47·1	49·5	+ 5·1	53	0	•	•	47·6				7	0·86	—	3·6	+ 1·5	40	+17	Deerness.
a, Islands .. *a* Stornoway	57	29th	37	1st	53·1	44·6	48·7	+ 4·3	47	0	•	•	•				7	1·89	+ 0·56	2·2	+ 0·1	25	+ 1	Stornoway.
a Castlebay, Barra Isd.‡..	*55*	*28, 29*	*45*	*1st*	*53·7*	*48·4*	*51·0*	*+ 4·1*	*63*	*0*	•	•	•				*7*	*2·04*	—	*1·8*		*20*	—	*Castlebay.*
a Wick	56	28th	42	28th	53·3	47·3	50·2	+ 5·9	57	0	•	•	•				5	0·49	- 0·21	•	•	•	•	
p Strathpeffer ..	59	30th	37	26th	55·0	42·6	48·6	+ 5·4	46	0	•	•	•				6	0·47	- 0·18	2·4	+ 0·1	27	+ 1	Strathpeffer.
b, Main- *p* Glencarron ..	58	28, 29	39	26, 1	52·7	43·9	48·2	+ 5·4	43	0	•	•	•				7	2·80	+ 0·69	•	•	•	•	
land. *p* Fort Augustus..	59	28th	36	26th	54·0	45·1	49·4	+ 5·6	52	0	•	•	•				7	1·30	+ 0·32	1·6	+ 0·1	18	+ 2	Fort Augustus.
p Fort William ..	60	29th	37	26th	54·0	45·3	49·5	+ 4·9	53	0	•	•	•				7	2·48	+ 0·68	•	•	•	•	
1. SCOTLAND, E.																				3·5	—	39	—	Crathes S.
p Gordon Castle.. S	62	28th	34	1st	57·0	42·9	49·7	+ 5·5	54	0	0	31	48·7	+3·3	50·1	+1·1	—	—	—	*3·7*	—	*41*	—	*Gordon Castle*
a Nairn	58	28th	36	26th	54·1	41·6	47·7	+ 3·9	42	1	•	•	•		•		3	0·22	- 0·48	3·1	—	34	—	Nairn.
a Aberdeen ..	60	27th	37	26th	55·1	45·6	50·2	+ 5·7	57	0	•	•	•		49·5	+1·0	4	0·23	- 0·28	3·7	+ 1·1	41	+13	Aberdeen.
a Balmoral ..	61	29, 31	30	26th	58·1	39·1	48·3	+ 7·6	56	8	2	28	•		•		5	0·23	- 0·44	•	•	•	•	Balmoral.
p Crieff	59	26th	37	26th	54·0	43·7	48·7	+ 4·7	47	0	•	•	•		•		6	0·63	- 0·27	2·7	—	30	—	Balruddery.
a Leith	60	27th	36	26th	56·3	45·3	50·6	+ 4·8	60	0	•	•	•		•		7	1·27	+ 0·31	•	•	•	•	
p West Linton ..	57	27th	32	26th	53·4	41·9	47·5	+ 5·0	39	0	2	27	•		•		2	0·27	- 0·19	*2·2*	—	*24*	—	*West Linton.*
p Marchmont ..	58	28th	37	1st	54·4	42·1	48·1	+ 5·0	43	0	1	30	46·4	+2·2	•		7	0·74	—	2·0	- 0·2	22	- 3	Marchmont.
																	6	0·43	- 0·35					
2. ENGLAND, N.E.																								
a Alnwick Castle ..	60	27th	40	26th	56·3	44·7	50·3	+ 5·9	58	0	0	32	46·5	+2·6	48·8	+1·0	6	0·31	- 0·50	3·3	—	36	—	Cockle Park.
a Shields	58	30th	42	26th	55·9	47·4	51·5	+ 5·9	67	0	•	•	•		•		3	0·30	- 0·32	•	•	•	•	
p Durham	59	29th	38	1st	54·6	45·1	49·7	+ 5·3	54	0	0	35	•		•		5	0·30	- 0·36	2·8	+ 0·4	30	+ 5	Durham.
a, North .. *p* Rounton	61	29th	42	26, 31, 1	56·9	46·0	51·3	+ 7·5	65	0	0	34	47·5	•	49·6	•	4	0·62	- 0·09	•	•	•	•	
a West Witton ..	*58*	*27th*	*38*	*1st*	*54·4*	*44·9*	*49·5*	—	*53*	*0*	0	34	•		•		*6*	*0·79*	—	•	•	•	•	*West Witton.*
p Scarborough ..	61	29th	41	26th	56·1	46·9	51·4	+ 5·1	66	0	•	•	49·4	+0·7	52·2	+0·3	6	0·55	- 0·14	3·2	—	34	—	Scarborough.
p York	62	29th	40	1st	55·1	44·7	49·8	+ 4·3	55	0	•	•	•		•		5	0·66	+ 0·11	2·2	+ 0·1	23	+ 1	York.
											0	34	47·9	+1·3	52·1	+0·3	—	—	—	*3·4*	—	*36*	—	*Hull.*
a Spurn Head ..	57	29-1	42	26, 27	56·3	45·9	51·0	+ 3·9	63	0	•	•	•		•		5	0·55	+ 0·06	*3·8*	—	*40*	—	*Spurn Head.*
b, South .. *a* Lincoln	62	29th	34	26th	57·4	44·9	51·0	+ 5·6	63	0	•	•	48·3	+0·9	52·5	+0·8	4	0·34	- 0·16	•	•	•	•	Lincoln.
a Fulbeck	60	29th	35	26th	57·1	44·7	50·7	+ 5·7	61	0	0	35	49·9	+2·8	52·9	+0·6	4	0·07	- 0·43	3·7	—	39	—	Rauceby.
											•	•	•		•		—	—	—	4·1	—	44	—	Skegness.
											0	40	52·2	+3·4	53·8	+0·6	—	—	—	*2·4*	—	*26*	—	*Lowestoft.*
3. ENGLAND, E.																				3·1	—	33	—	Cromer.
p Cromer	62	29th	45	31, 1	58·6	48·9	53·6	+ 7·7	81	0	•	•	•		•		6	0·75	—	2·9	—	31	—	Lit. Massingham.
p Little Massingham ..	61	29, 30	44	31st	57·3	46·6	51·8	+ 6·5	69	0	0	38	•		•		7	0·70	+ 0·06	2·1	—	22	—	Yarmouth.
a, North .. *a* Yarmouth	60	26, 29	39	26th	58·6	48·4	53·4	+ 6·6	80	0	•	•	51·7	+3·9	54·0	+0·6	3	1·05	+ 0·42	*3·3*	—	*35*	—	*Norwich.*
a Norwich	62	29th	39	26th	58 0	47·0	52·3	+ 7·3	72	0	0	32	49·5	•	•	•	5	0·96	—	2·8	+ 0·1	30	+ 1	Geldeston.
p Geldeston	63	26, 29	43	1st	60·4	49·0	54·5	+ 7·9	88	0	•	•	•		•		6	0·97	+ 0·37	•	•	•	•	
											0	33	47·5	+1·0	51·2	+0·5	—	—	—	*3·0*	—	*32*	—	*Huddersfield.*
4. MIDLAND COUNTIES.											0	31	48·4	+1·4	49·9	+0·9	5	0·68	0·00	1·8	—	19	—	Harrogate.
a Harrogate	57	29th	39	1st	54·1	44·3	49·1	+ 4·8	50	0	0	30	48·8	•	50·9	•	5	0·52	+ 0·08	3·7	+ 1·5	39	+16	Worksop.
a Bawtry	62	29th	36	1st	57·6	42·7	49·9	+ 5·1	55	0	1	30	48·5	+2·7	51·4	+0·9	*6*	*1·28*	+ 0·05	*2·7*	—	*29*	—	*Buxton.*
p Buxton	*57*	*30th*	*38*	*1st*	*53·9*	*42·7*	*48·1*	*+ 5·5*	*43*	*0*	0	34	48·8	+2·6	51·6	+0·2	5	0·41	- 0·09	3·9	—	42	—	Nottingham.
a, East .. *a* Nottingham ..	62	29th	33	26th	57·7	43·6	50·4	+ 5·0	59	0	0	35	48·3	+2·6	51·3	+0·6	7	0·77	+ 0·20	3·0	—	32	—	Birmingham.
p Birmingham, Edgbsn.	59	28, 29	41	31, 1	55·9	46·0	50·8	+ 5·5	62	0	0	33	49·3	+2·6	51·3	+0·6	5	0·52	—	•	•	•	•	Raunds.
a Raunds	63	29th	34	26th	59·9	43·9	51·7	+ 6·6	68	0	0	31	50·8	•	54·5	•	6	1·23	+ 0·65	3·2	+ 0·6	33	+ 6	Oxford.
p Oxford	62	28th	44	31st	58·9	48·0	53·3	+ 7·2	79	0	0	38	•		•		—	—	—	2·7	—	29	—	Sheffield.
											0	35	49·2	+2·0	51·5	+0·4	—	—	—	•	•	•	•	Cheadle.
a Cheadle	58	29th	38	1st	54·4	42·4	48·2	+ 3·9	43	0	0	32	•		•		6	0·93	+ 0·25	•	•	•	•	Shrewsbury.
p Shrewsbury ..	61	28th	35	1st	57·0	41·0	48·8	+ 2·9	52	3	0	31	•		•		5	1·49	—	•	•	•	•	Hereford.
b, West .. *a* Hereford ..	60	28, 31	36	1st	57·3	43·4	50·1	+ 4·3	57	0	0	31	•		•		7	1·69	+ 1·12	3·0	+ 0·4	31	+ 4	Cirencester.
a Cirencester ..	65	29, 30	38	31st	58·9	44·0	51·2	+ 6·9	64	0	0	36	50·6	•	53·3	•	6	0·97	+ 0·29	3·0	—	31	—	Bath.
a Bath	63	28th	41	31, 1	59·9	45·9	52·7	+ 5·7	75	0	•	•	52·7	+2·3	55·6	+0·7	5	1·08	—	•	•	•	•	
											0	38	52·3	+3·5	54·7	+2·0	—	—	—	•	•	•	•	Canterbury.
5. ENGLAND, S.E.											0	35	51·5	+3·4	53·9	+0·8	7	0·43	- 0·14	3·2	+ 0·9	33	+ 9	Kew.
p Kew	63	28th	44	1st	58·9	49·0	53·8	+ 7·5	83	0	0	36	•		53·9	•	6	1·46	+ 0·68	3·1	+ 0·6	32	+ 6	Marlborough.
a Marlborough ..	62	28th	41	1st	57·7	46·1	51·7	+ 7·1	68	0	0	40	53·6	+5·4	54·2	+1·3	5	0·65	+ 0·03	2·2	- 0·6	23	- 6	Margate.
a Margate	62	29th	45	1st	59·9	50·9	55·3	+ 7·2	93	0	0	35	51·4	+3·3	53·3	+0·7	7	1·24	—	3·3	—	34	—	Wisley.
a Wisley, Surrey ..	63	28th	38	26th	59·4	47·0	53·0	+ 6·0	77	0	0	42	54·2	+4·1	56·0	+1·4	—	—	—	2·9	—	30	—	Worthing.
											0	36	52·1	•	•	•	7	2·51	+ 1·73	•	•	•	•	Salisbury.
p Salisbury (Wilton) ..	64	28th	40	27, 31	59·3	43·9	51·4	+ 5·5	66	0	•	•	•		•		—	—	—	•	•	•	•	Tunbridge Wells.
a Tunbridge Wells ..																	6	1·09	+ 0·44	2·5	—	26	—	Littlestone.
a Dungeness	62	28, 29	50	1st	60·1	53·4	56·7	+ 7·7	103	0	0	42	54·3	•	55·6	•	6	1·56	+ 0·78	*2·3*	*- 0·8*	*24*	*- 9*	*Hastings.*
p Hastings..	62	27, 29	48	31, 1	60·0	52·6	56·2	+ 7·5	99	0	0	35	•		•		6	1·19	+ 0·39	2·4	- 0·4	25	- 5	Southampton.
p Southampton	63	28th	45	31st	59·9	50·4	55·0	+ 6·8	91	0	0	36	•		•		7	0·72	+ 0·15	3·4	+ 0·3	35	+ 3	Ventnor.
a Ventnor	62	27, 28	49	1st	60·0	53·4	56·6	+ 6·9	102	0	0	41	54·3	+4·4	56·0	+1·4	—	—	—	*3·0*	—	*31*	—	*Portsmouth.*
											0	41	55·0	•	56·6	•	—	—	—	2·4	- 0·6	25	- 7	Eastbourne.
											0	43	53·3	•	54·6	•	—	—	—	*3·1*	—	*32*	—	*Bournemouth.*
LONDON.											0	44	•	•	56·2	•	—	—	—	*2·8*	*- 0·3*	*29*	*- 4*	*Brighton.*
a Westminster	*64*	*28, 29*	*43*	*26th*	*60·4*	*49·7*	*54·9*	*+ 8·5*	*90*	*0*	0	42	•	•	•	•	*6*	*0·99*	*+ 0·43*	*2·6*	*+ 1·0*	*37*	*+10*	*Westminster.*
a Greenwich	*64*	*28, 29*	*43*	*26th*	*60·3*	*47·4*	*53·7*	*+ 7·3*	*82*	*0*	0	34	•	•	•	•	*7*	*1·30*	*+ 0·74*	*3·3*	*+ 1·1*	*34*	*+11*	*Greenwich.*
a Hampstead	*62*	*28th*	*38*	*26th*	*57·9*	*47·1*	*52·3*	—	*72*	*0*	1	30	•	•	•	•	*7*	*1·07*	—	*2·2*	—	*23*	—	*Hampstead.*
a Camden Square ..	*65*	*29th*	*41*	*26th*	*60·6*	*47·6*	*53·9*	—	*83*	*0*	0	42	•	•	•	•	*7*	*1·08*	—	*2·0*	—	*21*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	55	28th	38	26, 1	52·7	42·7	47·6	+ 2·1	39	0	•	•	•	•	•	•	7	1·55	+ 0·35	•	•	•	•	
p Glasgow	57	28th	41	26th	53·9	46·6	50·1	+ 5·5	57	0	0	32	•	•	•	•	7	0·63	- 0·17	1·8	+ 0·2	20	+ 2	Glasgow.
p Rothesay .. S.	56	28th	39	1st	53·6	45·7	49·5	+ 4·1	53	0	0	31	48·4	•	50·3	+0·9	7	1·04	+ 0·05	*1·6*	•	*18*	•	*Rothesay.*
a Kilmarnock ..	57	28-29	38	1st	55·1	44·7	49·8	+ 5·2	55	0	•	•	•	•	•	•	7	0·58	—	*2·0*	—	*22*	—	*Kilmarnock.*
a Colmonell ..	59	27th	37	1st	56·4	45·9	51·0	+ 6·1	63	0	0	32	•	•	•	•	5	1·66	+ 0·53	•	•	•	•	
p Dumfries ..	58	27th	42	26, 1	55·4	46·7	50·9	+ 5·6	62	0	0	34	49·1	•	52·0	•	6	1·63	+ 0·77	*1·7*	—	*18*	—	*Dumfries.*
p Cally, Gatehouse S.	59	29th	41	26th	56·0	45·3	50·5	+ 5·8	60	0	•	•	•	•	•	•	6	1·63	+ 0·44	•	•	•	•	
b I. OF MAN																								
p Douglas	57	26, 28, 29	45	31, 1	56·0	49·9	52·9	+ 6·0	76	0	0	39	•	•	•	•	7	1·79	+ 0·72	2·1	- 0·6	23	- 6	Douglas.
											0	36	48·6	+2·9	51·3	+1·1	—	—	—	*3·8*	—	*40*	—	*Burnley.*
											0	32	•	•	•	•	—	—	—	2·7	—	29	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	60	28, 29	42	31st	56·4	46·6	51·4	+ 6·6	66	0	0	35	49·0	•	51·2	•	7	1·16	+ 0·22	2·6	—	28	—	Aspatria.
p Newton Rigg	61	28th	41	1st	55·1	45·7	50·3	+ 6·9	58	0	0	32	49·2	+2·1	50·6	+0·8	7	1·54	+ 0·68	2·2	0·0	24	0	Newton Rigg.
p Stonyhurst	60	28, 29	42	31, 1	56·0	47·3	51·5	+ 7·0	67	0	0	34	•	•	•	•	4	0 50	- 0·54	2·6	+ 0·4	28	+ 5	Stonyhurst.
p Blackpool	61	29th	42	1st	57·1	48·1	52·5	+ 6·0	74	0	0	38	50·8	•	52·8	•	6	0·75	- 0·10	2·4	+ 0·1	26	+ 1	Blackpool.
p Manchester (Whit. Pk.)	62	29th	43	31, 1	57·7	48·4	52·9	+ 7·4	76	0	•	•	•	•	•	•	4	0·50	- 0·20	*3·3*	+ *1·1*	*35*	*+12*	*Whit. Park.*
a Liverpool (Bidston) ..	62	28, 29	37	26th	56·1	45·9	50·9	+ 4·1	62	0	•	•	•	•	•	•	5	0·96	+ 0·26	*3·0*	—	*32*	—	*Liverpool.*
a Hawarden Bridge ..	62	28th	37	26th	58·4	46·7	52·4	+ 5·0	73	0	0	37	48·4	+2·2	51·0	+0·2	5	1·36	+ 0·74	2·7	+ *0·5*	*29*	+ *6*	*Southport.*
											0	38	50·0	+2·7	55·4	+3·6	—	—	—	*2·8*	—	*30*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	62	27, 28	44	1st	57·7	49·0	53·2	+ 4·8	78	0	•	•	•	•	•	•	5	0·55	- 0·25	3·4	+ 1·1	36	+12	Llandudno.
a Holyhead	63	28th	40	28th	58·1	46·7	52·2	+ 3·6	71	0	•	•	•	•	•	•	7	1·64	+ 0·72	*2·6*	—	*28*	—	*Holyhead.*
p Bettws-y-Coed ..	58	27, 28	41	26th	56·0	47·9	51·8	+ 4·0	69	0	0	41	49·6	+3·4	51·3	+0·7	5	1·62	—	0·1	—	1	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	3·0	—	32	—	Aberdovey.

* For notes see also opposite page.

† At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·6	—	38	—	Aberystwyth.
a Llangammarch Wells	59	27, 28	34	1st	55·9	43·6	49·6	+ 5·1	53	0	0	31	49·3	+1·5	52·2	-0·3	7	1·93	—	1·9	—	20	—	Llangammarch
a Pembroke	61	28, 29	49	1st	57·9	51·3	54·5	+ 4·9	88	0	•	•	•	•	•	•	7	1·76	+ 0·86	2·1	- 0·6	22	- 7	Pembroke.[Wells
p Cardiff	62	27, 28	41	1st	57·9	48·0	52·8	+ 6·6	76	0	0	33	52·0	+4·2	54·3	+1·6	6	2·15	+ 1·12	*2·9*	—	*30*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	62	27, 28	45	26, 1	58·6	48·1	53·2	+ 6·4	78	0	0	40	•	•	•	•	5	0·72	- 0·08	*3·4*	—	*35*	—	*Clifton.*
a Shaftesbury	59	27, 28	43	31st	56·3	47·0	51·5	+ 5·4	67	0	•	•	52·2	•	55·0	•	6	0·99	+ 0·18	•	•	•	•	Shaftesbury.
a Arlington	61	27th	41	31st	56·0	46·1	50·9	+ 4·4	62	0	•	•	•	•	•	•	5	1·68	+ 0·26	•	•	•	•	Arlington.
a Newquay	*59*	*26, 27*	*42*	*1st*	*56·7*	*48·4*	*52·4*	+ 7·7	*73*	*0*	•	•	53·3	•	•	•	*7*	*2·07*	+ *1·34*	2·8	- 0·3	29	- 3	Newquay.
a Cullompton	61	27, 28	38	1st	58·4	45·7	51·9	+ 5·1	69	0	1	30	52·2	•	•	•	7	2·40	+ 1·55	1·7	- 0·8	18	- 8	Cullompton.
a Portland	61	27, 28	51	1st	59·1	54·3	56·6	+ 6·6	102	0	•	•	•	•	•	•	4	0·56	—	*2·8*	—	*29*	—	*Weymouth.*
p Plymouth	61	27, 28	47	31, 1	58·7	50·9	54·7	+ 5·4	89	0	0	37	53·8	+3·2	•	•	7	2·21	+ 1·34	2·2	- 0·7	23	- 7	Plymouth.
a Falmouth	59	26, 27	44	1st	57·0	49·1	52·9	+ 3·0	76	0	0	36	•	•	•	•	7	2·48	+ 1·37	2·2	- 1·1	23	-11	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	56	26, 28	41	1st	54·3	45·4	49·7	+ 2·6	54	0	•	•	•	•	•	•	7	0·85	+ 0·11	•	•	•	•	• •
a Blacksod Point ..	58	26, 30	45	26, 31, 1	55·9	47·4	51·6	+ 3·2	67	0	•	•	•	•	•	•	7	1·33	+ 0·13	•	•	•	•	• •
p Markree Castle ..	60	28th	28	1st	55·7	41·4	48·3	+ 3·0	47	2	1	22	50·6	•	53·4	•	7	1·29	+ 0·33	1·7	- 0·7	18	- 7	Markree Castle.
a Birr Castle	60	26, 28	30	26th	55·7	40·7	48·0	+ 2·7	47	4	•	•	•	•	•	•	6	1·26	+ 0·55	*2·5*	- *0·2*	*27*	- *2*	*Birr Castle.*
b, East .. *p* Armagh	61	26th	39	1st	55·6	45·0	50·1	+ 4·7	57	0	0	31	49·7	+1·7	52·1	+0·4	5	1·24	+ 0·60	3·0	+ 0·5	32	+ 6	Armagh.
a Donaghadee	57	26, 27, 1	37	26th	55·7	45·6	50·5	+ 3·6	60	0	•	•	•	•	•	•	6	1·26	+ 0·59	•	•	•	•	• •
											0	33	50·1	+1·4	52·6	+0·6	—	—	—	•	•	•	•	Trinity Coll.
											0	34	•	•	•	•	—	—	—	2·5	- 0·5	27	- 5	Phœnix Park.
10. IRELAND, S.																								
a, East .. *p* Dublin, City	59	28th	43	31, 1	55·4	47·0	51·1	+ 3·5	64	0	0	40	•	•	•	•	6	1·00	+ 0·39	•	•	•	•	Dublin City.
a Kilkenny	61	26th	33	26th	56·1	43·3	49·5	+ 3·6	53	0	•	•	•	•	•	•	7	2·11	+ 1·41	•	•	•	•	• •
a Waterford	60	26th	40	31st	55·9	48·0	51·8	+ 4·6	69	0	•	•	•	•	•	•	7	2·02	+ 1·14	•	•	•	•	• •
a Carrick-on-Suir ..	*59*	*26th*	*39*	*1st*	*54·4*	*44·7*	*49·4*	—	*52*	*0*	*0*	*32*	•	•	•	•	7	*2·38*	—	*2·5*	—	*27*	—	*Carrick-on-Suir.*
b, West .. *a* Birr Castle	60	26, 28	30	26th	55·7	40·7	48·0	+ 2·7	47	4	•	•	•	•	•	•	6	1·26	+ 0·55	2·5	- 0·2	27	- 2	Birr Castle.
a Foynes	58	28th	36	1st	?54·4	?44·3	?49·2	+ 1·9	50	0	•	•	•	•	•	•	7	1·52	+ 0·64	•	•	•	•	• •
a Cahir	61	26th	32	1st	55·7	42·6	49·0	+ 1·9	49	0	•	•	•	•	•	•	7	2·11	—	•	•	•	•	• •
a Killarney	59	26th	35	1st	56·8	45·3	50·9	+ 3·1	62	0	•	•	•	•	•	•	7	1·35	+ 0·05	•	•	•	•	• •
a Valencia	59	28th	38	1st	55·7	45·6	50·5	+ 1·1	60	0	•	•	•	•	•	•	7	1·82	+ 0·55	2·6	- 0·2	27	- 2	Valencia.
a Roche's Point ..	58	26th	42	1st	56·0	49·4	52·6	+ 3·3	74	0	•	•	•	•	•	•	7	2·33	+ 1·38	1·6	—	17	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	59	26th	48	31st	56·9	51·6	54·2	+ 2·3	85	0	•	•	•	•	•	•	7	1·20	+ 0·40	3·4	+ 0·2	35	+ 3	Scilly.
a Jersey, St. Aubins ..	64	27, 28	47	1st	60·9	52·6	56·6	+ 5·0	102	0	•	•	•	•	•	•	6	1·09	+ 0·15	3·7	+ 0·3	38	+ 4	St. Heliers.
a Guernsey (Villa Carey)	63	27, 28	46	1st	60·0	51·4	55·6	+ 4·1	95	0	0	42	55·0	+2·5	57·2	+0·9	6	0·94	- 0·10	4·0	+ 1·1	41	+12	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·8 hrs. 29 %; Ramsgate, 2·4 hrs. 25 %; Rhyl, 3·2 hrs. 34 %; Salcombe, 3·9 hrs. 30 %; Tenby, 2·2 hrs. (-0·6) 23 % (-6); Torquay, 2·9 hrs. (-0·3) 29 % (-3).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, November 1st.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	51	50	50·1	+1·4	SCOTLAND, W. ..	Lamlash	53	51	51·8	+1·2
	Kirkwall	51	49	50·3	+3·6		Ballantrae	54	51	52·6	+4·1
	Wick	51	50	50·5	-0·2	ENGLAND, N.W. ..	Port Erin	56	54	54·6	+2·1
SCOTLAND, E. ..	Cromarty	52	50	50·4	+2·6		Newquay	56	55	56·0	+0·7
	Pennan Bay	52	50	50·7	+3·5	ENGLAND, S.W. ..	Scilly	55	55	55·0	—
	Aberdeen, Cove Bay	52	51	51·7	+2·9		Plymouth‡	57	56	56·7	+1·3
ENGLAND, N.E. ..	Burnmouth, Berwick	50	49	49·7	+1·4		Salcombe	58	55	57·2	+2·4
	Scarborough	53	49	51·4	+2·0	IRELAND, N.W. ..	Sheephaven	52	49	50·4	-0·7
ENGLAND, E. ..	Shipwash Lightship	59	55	57·4	+3·8		Teelin	54	51	53·1	+2·4
ENGLAND, S.E. ..	Eastbourne‡	57	56	56·9	+4·1	IRELAND, S.W. ..	Cleggan	55	53	54·2	+4·6
							Seafield	55	49	53·5	+1·7

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-FOURTH WEEK—October 26th to November 1st, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	60	36	53·5	45·1	49·2	+ 5·2	50	+ 23	0	−11	7	+ 1	1·47	+0·18	2·5	+0·6	27	+ 7
Eastern.																		
1. SCOTLAND, EAST ...	62	30	55·3	42·8	48·9	+ 5·7	48	+ 20	0	−15	5	0	0·50	−0·26	3·0	+0·9	33	+10
2. ENGLAND, N.E.	62	34	56·2	45·6	50·7	+ 5·1	61	+ 27	0	− 7	5	+ 1	0·41	−0·25	3·2	+1·0	34	+10
3. ENGLAND, EAST ...	64	39	58·7	48·4	53·4	+ 7·1	80	+ 41	0	− 8	5	+ 1	0·97	+0·40	2·8	+0·1	29	+ 1
4. MIDLAND COUNTIES ...	65	33	57·4	44·1	50·6	+ 5·2	60	+ 24	0	−10	6	+ 2	0·94	+0·28	3·0	+0·8	32	+ 9
5. ENGLAND, S.E.	64	38	59·5	49·6	54·4	+ 6·4	87	+ 40	0	− 5	6	+ 2	1·21	+0·40	2·8	+0·2	29	+ 2
Western.																		
6. SCOTLAND, WEST ...	59	37	54·9	45·9	50·3	+ 4·5	58	+ 24	0	− 8	7	+ 2	1·31	+0·01	2·0	−0·2	21	− 2
7. ENGLAND, N.W.	63	37	56·9	47·2	51·9	+ 5·3	69	+ 31	0	− 6	6	+ 1	1·06	+0·15	2·4	+0·8	25	+ 7
8. ENGLAND, S.W.	62	34	57·6	48·4	52·9	+ 4·7	76	+ 28	0	− 4	6	+ 1	1·69	+0·59	2·4	−0·1	25	− 1
9. IRELAND, NORTH ...	61	28	55·5	44·3	49·7	+ 3·6	54	+ 18	0	− 7	6	+ 1	1·21	+0·27	2·4	0·0	25	0
10. IRELAND, SOUTH ...	61	30	55·7	45·1	50·3	+ 2·7	58	+ 12	0	− 6	7	+ 2	1·72	+0·75	2·3	−0·3	24	− 4
11. ENGLISH CHANNEL ...	64	46	59·3	51·9	55·5	+ 3·9	95	+ 28	0	0	6	+ 1	1·08	+0·13	3·7	+0·7	38	+ 7

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 9 Weeks, August 31st to November 1st, 1913.

0. SCOTLAND, NORTH ...	71	30	*	*	*	*	557	+104	9	−34	37	− 8	7·39	−3·03	2·9	+0·1	25	0
Eastern.																		
1. SCOTLAND, EAST ...	74	25	*	*	*	*	567	+ 82	16	−39	32	− 5	4·42	−1·35	2·8	−0·5	25	− 5
2. ENGLAND, N.E.	79	28	*	*	*	*	738	+166	3	−20	33	0	4·78	−0·35	3·5	−0·1	31	− 1
3. ENGLAND, EAST ...	76	29	*	*	*	*	850	+196	0	−28	32	0	5·32	+0·45	4·0	−0·1	35	− 1
4. MIDLAND COUNTIES ...	79	28	*	*	*	*	762	+165	4	−33	31	− 1	5·95	+0·80	3·1	−0·5	28	− 4
5. ENGLAND, S.E.	76	32	*	*	*	*	902	+175	0	−18	30	− 1	7·23	+1·40	4·0	−0·1	35	− 1
Western.																		
6. SCOTLAND, WEST ...	73	25	*	*	*	*	655	+116	5	−25	32	− 5	6·11	−3·42	2·7	−0·6	24	− 5
7. ENGLAND, N.W.	79	25	*	*	*	*	772	+162	3	−14	29	− 6	5·55	−1·69	3·4	0·0	30	0
8. ENGLAND, S.W.	78	28	*	*	*	*	853	+162	0	−13	33	− 3	8·08	+0·05	3·5	−0·4	31	− 4
9. IRELAND, NORTH ...	71	24	*	*	*	*	706	+141	10	−11	37	− 4	7·20	−0·15	3·0	−0·2	27	− 2
10. IRELAND, SOUTH ...	73	24	*	*	*	*	780	+136	13	− 5	41	+ 5	9·69	+2·64	3·3	−0·5	29	− 4
11. ENGLISH CHANNEL ...	77	43	*	*	*	*	1022	+147	0	0	34	− 5	6·23	−0·68	5·0	+0·2	44	+ 2

THE YEAR.—Aggregates, &c., for the Period of 44 Weeks, December 29th, 1912, to November 1st, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	2,088	+ 81	433	−167	186	−19	36·10	−5·73	3·1	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	2,238	− 17	617	− 58	161	− 9	21·80	−3·54	3·6	−0·5	28	− 4
2. ENGLAND, N.E.	82	18	*	*	*	*	2,668	+146	409	− 89	151	− 2	19·10	−1·49	3·8	−0·6	29	− 5
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,086	+172	303	−246	145	− 3	18·33	−1·45	4·2	−0·6	33	− 5
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,940	+107	396	−174	146	− 1	22·88	+0·97	3·5	−0·8	27	− 6
5. ENGLAND, S.E.	84	22	*	*	*	*	3,247	+101	221	−178	139	− 2	22·46	+0·52	4·4	−0·5	34	− 4
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,512	+ 70	328	−127	170	− 7	32·91	−5·47	3·7	−0·5	28	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,783	+106	301	−102	162	− 1	27·86	−0·59	4·0	−0·3	31	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	3,100	+117	221	− 93	163	+ 2	31·88	+1·20	4·2	−0·6	33	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,576	+ 24	307	− 59	189	− 4	31·39	+0·18	3·6	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	2,968	+ 38	256	− 21	193	+22	37·22	+4·99	4·0	−0·4	31	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,557	+ 96	38	− 71	162	−10	24·50	−1·09	4·9	−0·9	39	− 7

M.O., November 5, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 177

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 45. FORTY-FIFTH WEEK, SUNDAY, NOVEMBER 2ND, TO SATURDAY, NOVEMBER 8TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather was very variable. Rain was of frequent occurrence, but was interspersed with considerable intervals of brilliant sunshine. A thunderstorm was experienced at Douglas (I. of m.) on the 2nd, and thunder occurred later in the week in several parts of the Kingdom.

Temperature was again above the average generally, but below it in Scotland W. and Ireland S. The greatest divergence, nearly 2°, was in England E. and S.E. The highest of the maxima were recorded early in the week, and ranged from 60° in Eastern, Central and Southern England, and in the south of Ireland, to 53° in Scotland N. The lowest of the minima, which occurred late in the period, ranged from 22° in Scotland E. (at Balmoral on the 6th) to 33° in England E. and S.E., and to 44° in the English Channel. The lowest grass readings reported were 19° at Crathes, Balmoral and West Linton, 21° at Rauceby, 22° at Newton Rigg and 23° at Raunds and Rothesay. The temperature of the soil continued above the normal very generally.

Mean Temperature of the Sea was above the average except at Wick and Sheephaven, and, compared with the corresponding week of last year, the temperature of the water was high; at Eastbourne it was as much as 5°·4 warmer. The means for the week ranged from 48° at Cromarty to 55° on the south-west coast of England, and to 56° at Eastbourne.

Rainfall exceeded the normal in Scotland W., Ireland and the English Channel, but was less elsewhere. In several parts of England the deficit was considerable; at Durham, where rain fell on 2 days only, the total fall was 0·10 in.

Bright Sunshine was more than the average in all districts. In England S.E. and Ireland N., the daily mean was about 3·5 hours, and the percentage of the possible as high as 40. In Scotland N. and W. the daily mean was 2·2 hours, and the percentages were respectively 26 and 25.

Barometer and Wind. The pressure distribution was cyclonic throughout. Low pressure systems covered a large area on the Atlantic to the west and north of these Islands, and at times caused steep gradients for Southerly and South-Westerly winds over this country and the adjacent seas and Channels. The main wind current was between South and South-West, but the force varied greatly. On Sunday a gale or high wind blew in most districts, and later in the week the wind was often very strong on various parts of our western and northern coasts. On Friday, in the rear of a depression which had reached the North Sea, the wind veered to the North-Westward, but by the following day it had again returned to between West and South under the influence of a "V"-shaped depression extending over from the Atlantic.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 179.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual
	Rainfall ...	Moderate	Moderate	Light	Light	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Heavy	Heavy
	Sunshine ...	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Moderate	Abundant	Abundant	Abundant	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 10 weeks from Aug. 31st, 1913.	Warmth ...	4 * 0	5 * 0	5 * 0	7 * 0	8 · 0	8 * 0	4 * 0	6 * 0	6 * 0	5 * 0	6 * 2	8 * 0
	Rainfall ...	2 * 4	2 * 3	3 * 5	4 * 5	4 * 3	4 * 4	1 * 3	2 * 5	2 * 4	2 * 2	6 * 1	3 * 2
	Sunshine ...	5 * 3	4 * 6	4 * 3	3 * 1	3 * 3	4 * 2	1 * 4	5 * 3	3 * 4	2 * 4	2 * 5	2 * 3

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(32495—24.) Wt. 196—786. 450. 11/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands.. *p* Baltasound .. S	*52*	*2nd*	*40*	*8th*	*49·3*	*43·1*	*46·2*	—	*29*	*0*	•	•	46·2	•	•	•	*7*	*1·17*	—	*1·2*	—	*15*	—	*Baltasound.*
a Lerwick..	52	2nd	43	4, 6	49·3	44·1	46·7	+ 3·1	33	0	•	•	•	•	•	•	7	1·00	—	1·8	+ 0·1	22	+ 2	Deerness.
a Stornoway	51	2, 4, 5	40	6, 7	49·9	42·0	46·0	+ 2·1	28	0	•	•	•	•	•	•	6	0·74	- 0·59	2·2	+ 0·4	27	+ 5	Stornoway.
a Castlebay, Barra Isd.‡..	*53*	*3rd*	*41*	*8th*	*51·1*	*45·4*	*48·3*	+ *1·7*	*44*	*0*	•	•	•	•	•	•	*6*	*1·03*	—	*0·9*	—	*11*	—	*Castlebay.*
a Wick	52	5th	31	6, 8	49·6	37·9	43·8	+ 0·4	30	11	•	•	•	•	•	•	5	0·59	- 0·06	•	•	•	•	
p Strathpeffer	53	5th	28	6, 7	49·0	35·4	42·2	- 0·3	29	18	•	•	•	•	•	•	2	0·56	- 0·09	2·7	+ 0·7	32	+ 9	Strathpeffer.
b, Main- *p* Glencarron ..	52	5th	34	6th	48·2	38·5	43·4	+ 1·2	25	10	•	•	•	•	•	•	3	2·17	+ 0·07	•	•	•	•	
land. *p* Fort Augustus..	53	3rd	30	8th	48·6	38·6	43·6	+ 0·4	25	10	•	•	•	•	•	•	5	1·38	+ 0·39	2·0	+ 0·9	24	+10	Fort Augustus.
p Fort William ..	53	3rd	30	8th	49·0	38·4	43·7	0·0	27	10	•	•	•	•	•	•	3	1·53	- 0·30	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	54	2, 3, 5	29	6th	51·1	38·1	44·6	+ 1·2	35	11	3	19	45·3	+1·8	49·4	+1·4	—	—	—	3·4	—	40	—	Grathes S.
a Nairn .. .. S	51	2-4	27	6, 7	48·1	35·6	41·9	- 0·9	17	27	•	•	•	•	•	•	5	0·63	- 0·05	*3·3*	—	*39*	—	*Gordon Castle*
a Aberdeen	56	3rd	30	6, 7	51·1	38·0	44·6	+ 1·0	35	11	•	•	•	•	•	•	5	0·45	- 0·03	1·9	—	23	—	Nairn.
a Balmoral ..	53	2nd	22	6th	47·3	33·6	40·5	+ 0·5	15	33	3	19	•	•	•	•	5	0·95	+ 0·27	2·7	+ 0·5	32	+ 6	Aberdeen.
p Crieff	53	2nd	29	8th	48·6	37·7	43·2	+ 0·2	26	12	•	•	•	•	48·9	+1·6	5	0·57	- 0·33	•	•	•	•	Balmoral.
a Leith	55	2nd	30	8th	51·1	40·4	45·8	+ 1·0	33	4	•	•	•	•	•	•	4	1·31	+ 0·31	3·8	—	44	—	Balruddery.
p West Linton .. S	52	2nd	24	8th	47·6	33·7	40·7	- 0·8	16	33	4	19	•	•	•	•	5	0·63	+ 0·18	•	•	•	•	
p Marchmont ..	53	2nd	28	8th	49·3	36·4	42·9	+ 0·6	30	16	2	24	44·1	+1·8	•	•	6	0·87	—	*2·1*	—	*24*	—	*West Linton.*
																	6	0·51	- 0·25	2·3	+ 0·3	27	+ 3	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	56	2nd	29	6th	50·7	36·1	43·4	- 0·6	35	17	2	26	42·6	+0·7	48·2	+1·8	5	0·71	- 0·07	3·4	—	39	—	Cockle Park.
a Shields	58	2nd	35	8th	50·6	40·7	45·7	+ 1·0	31	4	•	•	•	•	•	•	5	0·26	- 0·31	•	•	•	•	
p Durham	55	2nd	29	8th	49·4	37·4	43·4	- 0·2	29	13	2	25	•	•	•	•	2	0·10	- 0·50	2·3	+ 0·2	26	+ 2	Durham.
a, North .. *p* Rounton	56	2nd	30	8th	50·1	37·7	43·9	+ 0·5	31	12	5	26	46·4	•	•	•	5	0·18	- 0·46	•	•	•	•	Rounton.
a West Witton	*55*	*2nd*	*30*	*8th*	*47·6*	*36·0*	*41·8*	—	*16*	*25*	2	*26*	*45·4*	•	*48·9*	•	*6*	*0·40*	—	•	•	•	•	*West Witton.*
p Scarborough	57	2nd	35	6th	51·9	41·9	46·9	+ 1·5	35	0	•	•	•	•	52·0†	•	4	0·34	- 0·28	2·3	—	26	—	Scarborough.
p York	57	2nd	34	8th	51·0	40·0	45·5	+ 1·1	33	6	•	•	48·0	+1·1	51·5	+0·8	4	0·41	- 0·10	1·4	- 0·3	16	- 4	York.
																	—	—	—	*1·8*	—	*20*	—	*Hull.*
a Spurn Head	57	2nd	38	6, 7	52·0	41·9	47·0	+ 1·0	35	0	1	28	45·3	+0·6	51·6	+0·9	4	0·43	- 0·01	?	?	?	?	*Spurn Head.*
b, South .. *a* Lincoln	57	2nd	35	6, 8	51·9	38·9	45·4	+ 1·2	37	9	•	•	45·7	+0·3	51·6	+1·1	3	0·25	- 0·21	•	•	•	•	Lincoln.
a Fulbeck	59	2nd	34	7th	52·6	38·3	45·5	+ 1·5	40	10	4	21	47·8	+2·5	52·2	+1·0	5	0·26	- 0·21	3·1	—	34	—	Rauceby.
											•	•	•	•	•	•	—	—	—	3·5	—	39	—	Skegness.
3. ENGLAND, E.											0	32	48·8	+2·1	53·3	+1·7	—	—	—	*3·1*	—	*34*	—	*Lowestoft.*
p Cromer	58	2nd	37	8th	52·9	40·9	46·9	+ 3·1	39	3	•	•	•	•	•	•	5	0·18	—	2·8	—	31	—	Cromer.
p Little Massingham ..	56	2nd	35	8th	50·7	38·9	44·8	- 0·5	33	9	2	29	•	•	•	•	5	0·22	- 0·38	2·8	—	31	—	Lit. Massingham
a, North .. *a* Yarmouth	58	2nd	33	8th	53·1	40·3	46·7	+ 1·2	40	5	•	•	48·7	+3·6	53·3	+1·6	3	0·21	- 0·37	2·8	—	31	—	Yarmouth.
a Norwich	57	2nd	33	7th	52·3	38·1	45·2	+ 1·0	39	11	4	29	46·4	•	•	•	5	0·20	—	*3·1*	—	*34*	—	*Norwich.*
p Geldeston	59	2, 4	33	7th	54·9	39·4	47·2	+ 1·8	47	7	•	•	•	•	•	•	5	0·22	- 0·34	2·9	+ 0·5	32	+ 5	Geldeston.
p Cambridge	60	2nd	33	8th	51·9	38·7	46·8	+ 2·0	47	9	2	29	48·1	+2·1	53·2	+1·7	5	0·23	- 0·25	3·9	+ 1·5	43	+17	Cambridge.
a Felixstowe	*59*	*2nd*	*39*	*4th*	*54·3*	*42·6*	*48·5*	+ *2·1*	*46*	*0*	•	•	•	•	•	•	*4*	*0·54*	—	*3·5*	—	*39*	—	*Felixstowe.*
a Clacton-on-Sea ..	58	2nd	40	4, 5, 7, 8	54·1	42·7	48·4	+ 2·2	45	0	0	34	51·5	+2·2	54·9	+2·5	4	0·17	—	3·4	—	37	—	Clacton.
b, South .. *a* Rothamsted	59	2nd	33	4th	53·7	37·9	45·8	+ 1·8	44	11	•	•	•	•	•	•	7	0·27	- 0·36	4·5	+ 2·1	49	+23	Rothamsted.
a Shoeburyness	*60*	*2nd*	*39*	*4th*	*55·0*	*43·3*	*49·2*	+ *2·5*	*50*	*0*	*0*	*33*	*51·6*	+*3·4*	•	•	*4*	*0·21*	—	*3·3*	—	*36*	—	*Southend.*
p Tottenham	58	2nd	38	4th	54·0	44·0	49·0	+ 3·6	49	0	0	32	•	•	54·9	+1·8	2	0·21	—	2·9	—	32	—	Tottenham.
											3	28	45·8	+2·0	50·5	+1·1	—	—	—	*1·7*	—	*19*	—	*Huddersfield.*
4. MIDLAND COUNTIES.											3	27	46·5	+1·1	49·2	+1·5	4	0·37	- 0·30	2·1	—	24	—	Harrogate.
a Harrogate	54	2nd	30	6th	48·6	36·9	42·8	- 0·7	27	14	4	26	46·6	•	50·3	•	5	0·31	- 0·12	2·2	+ 0·3	24	+ 4	Worksop.
a Bawtry	58	2nd	34	8th	52·3	39·1	45·7	+ 1·4	38	8	3	29	46·7	+3·1	50·7	+1·3	*6*	*0·48*	—	*0·72*	—	*37*	—	*Buxton.*
p Buxton	*59*	*4th*	*32*	*7th*	*50·0*	*37·1*	*43·6*	+ *1·9*	*32*	*14*	4	29	45·2	+0·9	50·8	+1·1	3	0·25	- 0·22	*3·1*	—	*34*	—	Nottingham.
a, East .. *a* Nottingham	57	2nd	30	7th	52·7	34·9	43·8	- 0·9	42	20	4	29	45·2	+1·7	51·1	+1·2	6	0·22	- 0·33	2·1	—	23	—	Birmingham.
p Birmingham, Edgbsn.	57	2nd	37	6th	52·7	40·7	46·7	+ 3·2	38	4	1	25	47·1	+1·7	51·1	+1·2	5	0·20	—	3·7	—	41	—	Raunds.
a Raunds	59	2nd	30	4th	[4 9	36·0	45·5	+ 1·5	50	17	5	23	49·1	•	53·8	•	6	0·30	—	•	•	•	•	Oxford.
p Oxford	59	2nd	38	4th	54·6	41·7	48·2	+ 3·2	45	1	2	30	•	•	•	•	6	0·37	- 0·19	4·4	+ 2·1	48	+23	Sheffield.
											1	29	47·5	+2·1	50·9	+0·9	—	—	—	2·8	—	31	—	Cheadle.
a Cheadle	?55	2nd	35	6, 8	50·3	37·9	44·1	+ 0·6	32	11	4	28	•	•	•	•	3	0·45	- 0·21	•	•	•	•	Shrewsbury.
p Shrewsbury	60	2nd	31	4th	54·7	37·0	45·8	+ 0·9	48	14	1	26	•	•	•	•	3	0·28	—	•	•	•	•	Hereford.
b, West .. *a* Hereford	57	2, 3	31	4th	53·7	36·3	45·0	+ 0·3	45	16	3	25	•	•	•	•	5	0·31	- 0·25	•	•	•	•	Cirencester.
a Cirencester	57	2nd	34	8th	52·3	38·4	45·4	+ 2·0	39	10	0	32	49·1	•	52·4	•	5	0·49	- 0·18	4·1	+ 1·8	45	+20	Cirencester.
a Bath	59	2nd	34	4th	55·6	38·6	47·1	+ 1·1	50	10	•	•	50·7	+2·4	54·4	+1·0	7	0·39	- 0·30	4·1	—	45	—	Bath.
											1	30	50·3	+3·6	54·1	+3·2	—	—	—	•	•	•	•	Canterbury.
5. ENGLAND, S.E.											3	28	49·4	+3·3	53·3	+1·6	—	—	—	•	•	•	•	Kew.
p Kew	57	2nd	35	4th	54·3	41·1	47·7	+ 2·3	44	3	•	•	•	•	•	•	—	—	—	•	•	•	•	Marlborough.
a Marlborough ..											0	33	51·9	+5·4	54·0	+2·8	6	0·24	- 0·36	2·5	0·0	28	0	Margate.
a Margate	58	2nd	39	8th	54·4	43·3	48·9	+ 1·9	48	0	4	26	49·5	+3·5	52·8	+1·5	4	0·25	—	4·1	—	45	—	Wisley.
a Wisley, Surrey ..	58	2nd	33	4th	54·6	39·6	47·1	+ 1·0	46	7	0	34	51·8	+4·6	55·5	+2·5	—	—	—	4·1	—	44	—	Worthing.
p Salisbury (Wilton) ..	60	2nd	33	4th	55·7	38·4	47·1	+ 2·3	51	10	1	30	50·1	•	•	•	5	0·86	+ 0·06	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	58	2, 3	39	8th	55·9	43·9	49·9	+ 2·1	55	0	•	•	•	•	•	•	5	1·10	+ 0·48	2·7	—	30	—	Littlestone.
p Hastings..	59	4th	39	7th	54·7	43·4	49·1	+ 1·6	50	0	0	32	51·6	•	55·0	•	6	1·23	+ 0·47	*3·1*	+ *0·3*	*33*	+ *4*	*Hastings.*
p Southampton	58	2, 4, 5	39	4, 7	56·1	42·7	49·4	+ 2·3	52	0	0	32	•	•	•	•	5	0·51	- 0·26	4·2	+ 1·7	45	+18	Southampton.
a Ventnor	59	2nd	42	7th	56·1	46·7	51·4	+ 2·5	66	0	0	32	•	•	•	•	5	0·22	- 0·41	4·4	+ 1·6	47	+18	Ventnor.
											•	•	•	•	•	•	•	•	•	*4·2*	—	*45*	—	*Portsmouth.*
											1	30	52·3	+4·4	55·5	+2·3	—	—	—	3·3	+ 0·7	36	+ 7	Eastbourne.
											•	•	53·2	•	56·1	•	—	—	—	*4·5*	—	*48*	—	*Bournemouth.*
											•	•	50·5	•	53·5	•	—	—	—	*3·9*	—	*42*	—	*Brighton.*
LONDON.											0	34	•	•	55·8	•	—	—	—	•	•	•	•	
a Westminster	*60*	*2nd*	*38*	*4th*	*55·9*	*42·4*	*49·2*	+ *3·7*	*50*	*0*	0	34	•	•	•	•	*4*	*0·16*	- *0·38*	*2·5*	+ *1·3*	*28*	+*14*	*Westminster.*
a Greenwich	*59*	*2nd*	*36*	*4th*	*55·1*	*40·6*	*47·9*	+ *2·5*	*47*	*4*	3	26	•	•	•	•	5	*0·37*	- *0·18*	*3·2*	+ *1·3*	*35*	+*15*	*Greenwich.*
a Hampstead	*57*	*2nd*	*38*	*7th*	*53·6*	*41·7*	*47·7*	—	*41*	*1*	5	24	•	•	•	•	5	*0·21*	—	*3·2*	—	*35*	—	*Hampstead.*
a Camden Square ..	*59*	*2nd*	*36*	*4th*	*55·3*	*40·9*	*48·1*	—	*47*	*3*	0	35	•	•	•	•	6	*0·17*	—	*2·6*	—	*29*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	51	2, 5	31	7, 8	48·6	38·9	43·8	- 0·8	26	9	•	•	•	•	•	•	5	1·11	- 0·11	•	•	•	•	
p Glasgow .. .. S	51	2, 3	33	8th	48·4	41·0	44·7	+ 0·7	23	3	2	24	•	•	•	•	4	0·95	+ 0·13	1·6	+ 1·3	19	+ 3	Glasgow.
p Rothesay .. S	52	2nd	32	8th	49·0	39·7	44·4	- 0·3	26	6	2	23	46·7	•	49·8	+1·5	5	1·61	+ 0·57	*2·0*	•	*23*	•	*Rothesay.*
a Kilmarnock ..	53	2nd	29	7th	50·1	39·3	44·7	+ 1·1	30	8	•	•	•	•	•	•	5	0·92	—	*2·1*	—	*24*	—	*Kilmarnock.*
a Colmonell ..	53	2, 4, 5	30	7th	51·1	38·3	44·7	+ 1·0	34	10	1	29	•	•	•	•	6	1·39	+ 0·21	•	•	•	•	
p Dumfries ..	54	2nd	31	8th	50·3	39·4	44·9	+ 0·8	31	7	1	28	47·1	•	51·1	•	5	1·13	+ 0·24	*1·9*	—	*22*	—	*Dumfries.*
p Cally, Gatehouse	54	2, 4	31	7th	50·1	37·1	43·6	- 0·3	32	14	•	•	•	•	•	•	6	1·77	+ 0·54	•	•	•	•	
b I. OF MAN																								
p Douglas	54	2nd	39	8th	51·7	42·1	46·9	+ 0·7	34	0	0	34	•	•	•	•	6	1·82	+ 0·74	2·8	+ 0·4	32	+ 5	Douglas.
											2	29	46·5	+3·1	50·6	+1·7	—	—	—	*1·1*	—	*12*	—	*Burnley.*
											•	•	•	•	•	•	—	—	—	•	•	•	•	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	54	2nd	33	7th	49·7	40·3	45·0	+ 1·0	28	5	1	29	47·6	•	50·8	•	6	0·86	- 0·11	1·6	—	18	—	Aspatria.
p Newton Rigg	53	2nd	29	8th	48·9	37·6	43·3	+ 0·8	28	12	5	22	47·2	-1·9	49·9	+1·3	5	0·62	- 0·22	1·6	- 0·4	18	- 4	Newton Rigg.
p Stonyhurst	55	2nd	36	8th	49·7	40·6	45·2	+ 1·4	28	4	4	28	•	•	•	•	7	0·71	- 0·33	1·6	- 0·3	18	- 3	Stonyhurst.
p Blackpool	56	2nd	37	7th	51·7	42·4	47·1	+ 1·3	36	0	0	32	49·4	•	52·3	•	7	0·71	- 0·14	2·3	+ 0·3	26	+ 4	Blackpool.
p Manchester (Whit. Pk.)	57	2nd	35	7th	52·3	41·9	47·1	+ 2·1	36	0	•	•	•	•	•	•	6	0·27	- 0·40	*1·2*	+ *0·2*	*13*	+ *2*	*Whit. Park.*
a Liverpool (Bidston) ..	56	2nd	39	6th	51·9	41·6	46·8	+ 1·5	35	1	•	•	•	•	•	•	6	0·32	- 0·33	*2·9*	—	*32*	—	*Liverpool.*
a Hawarden Bridge ..	59	2nd	38	4, 8	54·3	41·1	47·7	+ 1·2	44	3	3	27	46·0	+1·8	50·5	+1·4	3	0·26	- 0·31	*2·2*	—	*25*	—	*Southport.*
											1	28	48·3	+3·3	54·6	+3·2	—	—	—	*0·8*	—	*9*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	57	2nd	41	4, 6-8	53·9	42·4	48·2	+ 0·7	43	0	•	•	•	•	•	•	5	0·72	- 0·03	2·8	+ 0·7	31	+ 8	Llandudno.
a Holyhead	56	2nd	41	4th	53·1	44·6	48·9	+ 1·1	48	0	0	•	•	•	•	•	6	1·07	+ 0·13	*2·8*	—	*31*	—	*Holyhead.*
p Bettws-y-Coed ..	55	2, 5	34	7th	52·1	40·9	46·5	- 0·9	36	3	?	?	47·3	+2·8	50·4	+0·9	7	1·23	—	2·3	—	26	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	3·2	—	36	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.
‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	55	2nd	31	7th	51·4	35·7	43·6	0·0	38	18	?3	27	47·0	+0·9	51·6	+0·7	6	0·86	—	3·7	—	41	—	Aberystwyth.
a Pembroke	57	2nd	45	7th	54·6	49·0	51·8	+ 2·9	69	0	*	*	*	*	*	*	5	1·11	+ 0·21	2·5	—	28	—	Llangammarch
p Cardiff	58	2nd	37	7th	53·9	41·7	47·8	+ 2·5	42	1	0	31	49·2	+3·7	53·5	+2·2	5	1·54	+ 0·56	2·2	- 0·2	24	- 2	Pembroke.[Wells.
																				3·0	—	*33*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	58	2nd	38	7th	53·4	42·1	47·8	+ 1·8	41	0	0	32	*	*	*	*	6	0·73	- 0·04	*3·8*	—	*42*	—	*Clifton.*
a Shaftesbury	57	2nd	36	7th	52·9	41·6	47·3	+ 2·3	39	1	*	*	49·5	*	53·9	*	5	0·45	- 0·35	*	*	*	*	Shaftesbury.
a Arlington	57	2nd	37	4th	52·1	41·4	46·8	+ 1·2	36	2	*	*	*	*	*	*	6	1·65	+ 0·27	*	*	*	*	Arlington.
a Newquay	*57*	*2, 4*	*39*	*4th*	*53·7*	*45·9*	*49·8*	+ *0·8*	*55*	*0*	*	*	51·4	*	*	*	*5*	*1·31*	+ *0·58*	2·9	+ 0·1	31	+ 1	Newquay.
a Cullompton	58	2, 3	35	4th	54·9	39·1	47·0	+ 1·0	47	8	2	29	50·1	*	*	*	7	0·79	- 0·05	3·2	+ 1·0	34	+11	Cullompton.
a Portland	58	2, 3	44	7th	56·0	49·3	52 7	+ 3·7	75	0	*	*	*	*	*	*	5	0·57	—	*3·7*	—	*40*	—	*Weymouth.*
p Plymouth	59	3rd	41	4th	56·0	44·9	50·5	+ 2·1	60	0	0	35	50·9	+1·6	*	*	6	1·16	+ 0·29	3·4	+ 0·8	37	+ 9	Plymouth.
a Falmouth	58	3rd	42	4, 7	54·4	44·3	49·4	+ 0·2	52	0	0	32	*	*	*	*	5	1·25	+ 0·13	3·3	+ 0·4	36	+ 4	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	52	3rd	40	6, 7	50·4	41·7	46·1	- 0·2	30	1	*	*	*	*	*	*	6	1·09	+ 0·35	*	*	*	*	
a Blacksod Point ..	55	4, 8	38	6th	53·0	44·0	48·5	+ 1·0	46	0	*	*	*	*	*	*	7	1·56	+ 0·36	*	*	*	*	
p Markree Castle ..	55	2nd	30	7th	52·4	35·7	44·1	- 0·4	41	18	5	24	47·7	*	52·3	*	6	1·03	+ 0·06	3·5	+ 1·4	39	+15	Markree Castle.
a Birr Castle	54	4th	33	7th	52·0	36·1	44·1	- 0·5	39	17	*	*	*	*	*	*	5	1·02	+ 0·27	*3·6*	+ *1·2*	*40*	+*13*	*Birr Castle.*
b, East .. { *p* Armagh	53	3, 4, 7	35	7th	51·6	38·6	45·1	+ 0·5	36	10	3	26	47·7	+1·7	51·3	+0·9	5	0·97	+ 0·31	3·6	+ 1·4	40	+16	Armagh.
a Donaghadee	53	2-4	39	2, 4, 6	52·0	39·9	46·0	0·0	37	6	*	*	*	*	*	*	6	1·31	+ 0·60	*	*	*	*	
											1	26	48·1	+1·2	51·7	+1·0	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											1	26	*	*	*	*	—	—	—	5·1	+ 2·4	57	+27	Phœnix Park.
a, East .. { *p* Dublin, City	55	4th	38	4, 7	51·7	40·9	46·3	- 0·5	35	3	0	35	*	*	*	*	4	0·65	0·00	*	*	*	*	Dublin City.
a Kilkenny	54	2-4	30	4th	52·6	36·1	44·4	- 0·8	42	17	*	*	*	*	*	*	5	0·57	- 0·17	*	*	*	*	
a Waterford ..	57	2nd	34	8th	53·4	38·3	45·9	- 0·6	43	10	*	*	*	*	*	*	4	1·31	+ 0·39	*	*	*	*	
a Carrick-on-Suir ..	*54*	*2nd*	*37*	*6th*	*51·9*	*39·3*	*45·6*	—	*37*	*8*	*1*	*29*	*	*	*	*	*7*	*1·52*	—	*3·5*	—	*39*	—	*Carrick-on-Suir.*
b, West .. { *a* Birr Castle	54	4th	33	7th	52·0	36·1	44·1	- 0·5	39	17	*	*	*	*	*	*	5	1·02	+ 0·27	3·6	+ 1·2	40	+13	Birr Castle.
a Foynes	53	2, 5	38	3, 5, 6	51·1	40·1	45·6	- 0·9	33	5	*	*	*	*	*	*	6	1·35	+ 0·43	*	*	*	*	
a Cahir	54	4, 8	31	4th	51·0	35·9	43·5	- 2·8	36	17	*	*	*	*	*	*	7	0·89	—	*	*	*	*	
a Killarney	60	4th	39	7th	54·6	40·8	47·7	+ 0·8	45	3	*	*	*	*	*	*	7	2·36	+ 1·02	*	*	*	*	
a Valencia	56	4, 8	39	2, 8	53·9	42·1	48·0	- 0·8	42	0	*	*	*	*	*	*	6	1·98	+ 0·68	1·8	- 0·7	20	- 7	Valencia.
a Roche's Point	56	2, 3	41	2, 4	53·9	43 0	48·5	+ 0·1	46	0	*	*	*	*	*	*	7	1·35	+ 0·36	1·7	—	19	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	57	4th	45	6, 7	55·0	47·9	51·5	+ 0·5	67	0	*	*	*	*	*	*	5	0·78	- 0·02	3·1	+ 0·2	33	+ 2	Scilly.
a Jersey, St. Aubins ..	59	2, 3, 8	45	4, 6	57·4	48·4	52·9	+ 2·6	76	0	*	*	*	*	*	*	6	1·63	+ 0·70	3·2	+ 0·2	34	+ 3	St. Heliers.
a Guernsey (Villa Carey)	59	3, 8	44	4, 7	56·9	47·1	52·0	+ 1·6	70	0	0	37	52·7	+1·9	56·2	+1·4	5	1·48	+ 0·44	3·3	+ 0 8	36	+ 9	Guernsey.*

Additional Sunshine Means:—*Bognor, 4·1 hrs. 44 %; Ramsgate, 2·7 hrs. 30 %; Rhyl, 3·1 hrs. 34 %; Salcombe, 3·6 hrs. 39 %; Tenby, 3·0 hrs. (+0·5) 33 %(+6); Torquay, 3·7 hrs. (+1·2) 40 %(+13).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, November 8th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	50	49	49·9	+2·1	SCOTLAND, W. ..	Lamlash	52	50	50·9	+0·9
	Kirkwall	50	48	49·1	+3·7		Ballantrae	54	50	51·6	+4·4
	Wick	50	49	49·8	-0·2	ENGLAND, N.W. ..	Port Erin	55	53	53·8	+2·1
SCOTLAND, E. ..	Cromarty	50	46	48·3	+2·2	ENGLAND, S.W. ..	Newquay	55	55	55·0	+1·1
	Pennan Bay	50	48	49·2	+3·4		Scilly	55	53	54 8	—
	Aberdeen, Cove Bay	51	50	50·7	+3·0		Plymouth‡	56	55	55·3	+0·8
ENGLAND, N.E. ..	Burnmouth, Berwick	49	47	48·1	+0·8		Salcombe	57	53	54·9	+1·3
	Scarborough	52	47	49·6	+1·5	IRELAND, N.W. ..	Sheephaven	51	47	49·4	-0·2
ENGLAND, E. ..	Shipwash Lightship	57	52	54·3	+2·4		Teelin	52	48	50·5	+1·2
ENGLAND, S.E. ..	Eastbourne‡	57	55	56·0	+4·4	IRELAND, S.W. ..	Cleggan	54	51	52·5	+4·1
							Seafield	55	49	52·6	+1·9

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-FIFTH WEEK—November 2nd to November 8th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	53	28	49·1	39·3	44·2	+ 0·7	27	+ 3	8	− 4	4	− 1	1·14	−0·12	2·2	+0·8	26	+10
Eastern.																		
1. SCOTLAND, EAST ...	56	22	49·3	36·7	43·0	+ 0·2	29	+ 5	15	− 2	5	+ 1	0·74	−0·02	2·8	+0·9	33	+11
2. ENGLAND, N.E.	59	29	51·1	39·2	45·2	+ 0·6	34	+ 5	8	− 2	4	0	0·33	−0·25	2·7	+0·7	30	+ 8
3. ENGLAND, EAST ...	60	33	53·4	40·1	46·8	+ 1·7	42	+ 9	5	− 6	5	+ 1	0·21	−0·29	3·3	+0·8	36	+ 9
4. MIDLAND COUNTIES ...	60	30	52·9	38·0	45·5	+ 1·2	41	+ 10	11	− 2	5	+ 1	0·33	−0·30	3·2	+1·3	35	+14
5. ENGLAND, S.E.	60	33	55·2	42·4	48·8	+ 1·9	48	+ 7	0	− 7	5	+ 1	0·58	−0·19	3·6	+1·3	40	+15
Western.																		
6. SCOTLAND, WEST ...	54	29	49·9	39·5	44·7	− 0·2	29	− 1	7	− 1	5	0	1·34	+0·02	2·2	+0·4	25	+ 6
7. ENGLAND, N.W.	59	29	51·8	41·3	46·6	+ 0·9	35	+ 2	2	− 5	6	+ 1	0·68	−0·19	2·3	+0·5	25	+ 6
8. ENGLAND, S.W.	59	31	54·0	42·9	48·5	+ 1·1	46	+ 6	0	− 5	6	+ 1	1·01	−0·07	3·0	+0·8	33	+ 9
9. IRELAND, NORTH ...	55	30	51·9	39·3	45·7	+ 0·4	37	+ 5	8	0	6	+ 1	1·16	+0·20	3·6	+1·5	40	+16
10. IRELAND, SOUTH ...	60	30	52·7	39·3	46·0	− 0·8	39	− 2	8	+ 1	6	+ 1	1·28	+0·25	3·1	+0·7	34	+ 7
11. ENGLISH CHANNEL ...	59	44	56·4	47·8	52·1	+ 1·3	71	+ 9	0	0	5	0	1·30	+0·31	3·2	+0·5	34	+ 5

THE SEASON (Autumn).—Aggregates, &c., for the Period of 10 Weeks, August 31st to November 8th, 1913.

0. SCOTLAND, NORTH ...	71	28	*	*	*	*	584	+107	17	−38	41	− 9	8·53	−3·15	2·8	+0·1	25	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	74	22	*	*	*	*	596	+ 87	31	−41	37	− 4	5·16	−1·37	2·8	−0·3	25	− 3
2. ENGLAND, N.E.	79	28	*	*	*	*	772	+171	11	−22	37	0	5·11	−0·60	3·4	−0·1	31	0
3. ENGLAND, EAST ...	76	29	*	*	*	*	892	+205	5	−34	37	+ 1	5·53	+0·13	3·9	0·0	35	0
4. MIDLAND COUNTIES ...	79	28	*	*	*	*	803	+175	15	−35	36	0	6·28	+0·50	3·1	−0·3	28	− 2
5. ENGLAND, S.E.	76	32	*	*	*	*	950	+182	0	−25	35	0	7·81	+1·21	4·0	+0·1	36	0
Western.																		
6. SCOTLAND, WEST ...	73	25	*	*	*	*	684	+115	12	−26	37	− 5	7·45	−3·40	2·7	−0·5	24	− 4
7. ENGLAND, N.W.	79	25	*	*	*	*	807	+164	5	−19	35	− 5	6·23	−1·88	3·3	+0·1	30	+ 1
8. ENGLAND, S.W.	78	28	*	*	*	*	899	+168	0	−18	39	− 2	9·09	−0·02	3·5	−0·2	31	− 3
9. IRELAND, NORTH ...	71	24	*	*	*	*	743	+146	18	−11	43	− 3	8·36	+0·05	3·1	0·0	28	0
10. IRELAND, SOUTH ...	73	24	*	*	*	*	819	+134	21	− 4	47	+ 6	10·97	+2·89	3·3	−0·3	30	− 3
11. ENGLISH CHANNEL ...	77	43	*	*	*	*	1093	+156	0	0	39	− 5	7·53	−0·37	4·9	+0·3	43	+ 2

THE YEAR.—Aggregates, &c., for the Period of 45 Weeks, December 29th, 1912, to November 8th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	2,115	+ 84	441	−171	190	−20	37·24	−5·85	3·1	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	2,267	− 12	632	− 60	166	− 8	22·54	−3·56	3·6	−0·4	28	− 3
2. ENGLAND, N.E.	82	18	*	*	*	*	2,702	+151	417	− 91	155	− 2	19·43	−1·74	3·7	−0·7	29	− 5
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,128	+181	308	−252	150	− 2	18·54	−1·77	4·2	−0·6	33	− 5
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	2,981	+117	407	−176	151	0	23·21	+0·67	3·5	−0·7	28	− 6
5. ENGLAND, S.E.	84	22	*	*	*	*	3,295	+108	221	−185	144	− 1	23·04	+0·33	4·3	−0·5	34	− 4
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,541	+ 69	335	−128	175	− 7	34·25	−5·45	3·6	−0·5	29	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,818	+108	303	−107	168	0	28·54	−0·78	4·0	−0·2	31	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	3,146	+123	221	− 98	169	+ 3	32·89	+1·13	4·2	−0·5	33	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,613	+ 29	315	− 59	195	− 3	32·55	+0·38	3·6	−0·2	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	3,007	+ 36	264	− 20	199	+23	38·50	+5·24	3·9	−0·4	31	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,628	+105	38	− 71	167	−10	25·80	−0·78	4·9	−0·8	39	− 6

M.O., November 12, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 46. FORTY-SIXTH WEEK, SUNDAY, NOVEMBER 9TH, TO SATURDAY, NOVEMBER 15TH, 1913.

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I.—General Remarks.

Weather continued in a very unstable condition, with more or less rain almost daily, alternating with fair to bright intervals. Thunderstorms occurred at some time during the period in almost all districts.

Temperature was above the normal, the excess being nearly 5° in England East, 4° in England South-East and more than 3° in nearly all the other English districts, and also in Ireland. The highest of the maxima were registered on the 10th and 11th over the Kingdom generally, and ranged from 62° in the Midland Counties and the English Channel, 61° in England South West and 60° in England South-East to 53° in Scotland North. The lowest of the minima, which occurred on the 9th in most parts of Great Britain, but later in the week over Ireland, the south-west of England and at some northern stations, ranged from 27° in the Midland Counties, 28° in England South-East and North-West and 29° in England South-West and Scotland East to 37° in Ireland and to 41° in the English Channel. The lowest grass readings reported were 21° at Raunds and Hampstead, 22° at Marlborough and 23° at Rauceby. The temperature of the soil remained above the normal very generally. At some stations in the south-east of England the excess at a depth of 1 foot was more than 5°, and at Great Yarmouth nearly 7°.

Mean Temperature of the Sea. On nearly all parts of our coasts the temperature of the sea water was above the average and was higher than in the corresponding week of last year, the difference being 5° or 6° on the south-east and east coasts of England. The means for the week ranged from 55° at Plymouth, and about 54° on the south-west and south-east coasts generally, to 48° at Cromarty and to 47° at Scarborough.

Rainfall exceeded the average except in Scotland East, the difference being large over the greater part of the Kingdom. A fall of 1·1 in. occurred at Brighton on the 10th and 12th, and at Worthing also on the latter day, while at Douglas, I. of Man, there was 1·3 in. on the 11th.

Bright Sunshine was a little less than the normal in Scotland North, just equal to it in Scotland East and Ireland North, and above it elsewhere. In England East, South-East and South-West and in the English Channel and Ireland South the daily mean was rather more than 2·5 hours, but in Ireland North it decreased to 2 hours and in Scotland North to 1 hour. The percentage of the possible duration ranged from 31 in England East and South-West to 13 in Scotland North.

Barometer and Wind. Cyclonic conditions were again prevalent. During the early days of the week a large depression centred on the Atlantic moved very slowly towards Ireland, and during Wednesday and Thursday travelled directly across these Islands, the system becoming at the same time much modified in form. The Southerly and South-Westerly winds in front of the disturbance were often fresh or strong, but gale force was reached in few localities. In its rear, however, the Westerly and North-Westerly winds blew a squally gale on several parts of the western and south-western coasts. Towards the end of the week secondary disturbances passed eastward over the Kingdom, and strong winds from between West-South-West and West-North-West, with gales in some exposed places, were experienced very generally.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 183.	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual
Rainfall ...	Moderate	Moderate	Heavy	Very heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy
Sunshine ...	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Abundant	Abundant	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 11 weeks from Aug. 31st, 1913. Warmth ...	4 * 0	6 * 0	6 * 0	8 * 0	9 · 0	9 * 0	4 * 0	7 * 0	7 * 0	6 * 0	7 * 2	9 * 0
Rainfall ...	2 * 4	2 * 3	4 * 5	5 * 5	5 * 3	5 * 4	2 * 3	3 * 5	3 * 4	3 * 2	7 * 1	4 * 2
Sunshine ...	5 * 3	4 * 6	4 * 3	3 * 1	4 * 3	4 * 2	1 * 4	6 * 3	4 * 4	2 * 4	2 * 5	2 * 3

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks. Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks. Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks. Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks. Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(32599—24.) Wt. 196—786. 450. 11/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Rainfall. Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
0. SCOTLAND, N.	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
p Baltasound .. S	*51*	*11th*	*34*	*15th*	*48·7*	*41·8*	*45·3*	—	*24*	*1*	•	•	45·8	•	•	•	7	*1·59*	—	*0·1*	—	*1*	—	*Baltasound.*
a, Islands .. *a* Lerwick	51	11, 13	41	15th	49·1	45·1	47·1	+ 4·1	36	0	•	•	•	•	•	•	7	1·44	—	0·5	- 0·8	7	-11	Deerness.
a Stornoway	53	11, 12	37	10, 11, 15	49·7	40·6	45·2	+ 1·9	28	4	•	•	•	•	•	•	7	0·94	- 0·41	1·0	- 0·5	13	- 6	Stornoway.
a Castlebay, Barra Isd.‡ ..	*53*	*10, 11*	*41*	*15th*	*50·6*	*45·7*	*48·2*	+ *2·0*	*43*	*0*	•	•	•	•	•	•	*6*	*1·22*	—	*0·6*	—	*8*	—	*Castlebay.*
a Wick	51	9, 12	36	15th	48·9	43·0	46·0	+ 3·5	28	0	•	•	•	•	•	•	5	0·56	- 0·07	•	•	•	•	
b, Main- *p* Strathpeffer	49	13th	30	9, 10	46·9	35·3	41·1	- 0·5	14	27	•	•	•	•	•	•	5	0·69	+ 0·05	1·7	+ 0·2	22	+ 2	Strathpeffer.
land. *p* Glencarron ..	51	11th	32	9th	47·5	37·6	42·6	+ 1·2	23	12	•	•	•	•	•	•	5	2·93	+ 0·83	•	•	•	•	
p Fort Augustus..	52	12th	30	9th	48·1	37·9	43·0	+ 0·8	24	11	•	•	•	•	•	•	5	1·27	+ 0·28	0·8	0·0	10	0	Fort Augustus.
p Fort William ..	52	11, 12	38	15th	49·1	41·3	45·2	+ 2·3	25	2	•	•	•	•	•	•	6	1·99	+ 0·11	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	54	9th	37	14th	50·3	40·1	45·2	+ 2·6	30	5	1	27	44·3	+2·6	47·7	+0·9	—	—	—	1·6	—	20	—	Crathes S.
a Nairn	50	10th	29	9, 10	46·9	35·0	41·0	- 0·7	14	28	•	•	•	•	•	•	4	0·19	- 0·43	*2·3*	—	*29*	—	*Gordon Castle*
a Aberdeen	52	12th	35	9th	50·1	41·7	45·9	+ 3·3	29	1	•	•	•	•	•	•	6	0·35	- 0·12	*2·0*	—	25	—	Nairn.
a Balmoral ..	53	11th	29	15th	47·7	38·0	41·9	+ 3·0	16	25	2	25	•	•	47·7	+1·6	6	0·55	- 0·13	1·4	- 0·5	18	- 7	Aberdeen.
p Crieff	54	10th	33	15th	48·9	38·6	43·8	+ 1·9	27	10	•	•	•	•	•	•	5	0·38	- 0·49	•	•	•	•	Balmoral.
a Leith	53	13th	31	9th	49·6	39·6	44·6	+ 0·8	28	7	•	•	•	•	•	•	6	1·15	+ 0·10	2·0	—	25	—	Balruddery.
p West Linton .. S	51	10, 11	32	9th	48·1	36·3	42·2	+ 1·8	25	16	4	28	•	•	•	•	4	0·40	- 0·05	•	•	•	•	
p Marchmont .. S	52	11th	37	10th	48·0	38·9	43·5	+ 2·2	24	9	1	30	42·6	+2·3	•	•	6	1·05	—	*2·0*	—	*25*	—	*West Linton.*
																	5	0·68	- 0·05	1·4	- 0·3	17	- 4	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	54	11th	31	9th	50·1	39·6	44·9	+ 1·9	30	7	1	30	43·2	+3·4	46·7	+1·7	5	0·47	- 0·29	2·4	—	29	—	Cockle Park.
a Shields	54	10, 11	35	9th	51·0	42·3	46·7	+ 3·0	33	0	•	•	•	•	•	•	6	0·61	+ 0·11	•	•	•	•	
p Durham	52	10, 11	31	9, 10	49·7	38·7	44·2	+ 1·5	29	9	2	28	•	•	•	•	7	0·38	- 0·18	2·1	+ 0·2	25	+ 3	Durham.
a, North .. *p* Rounton	54	10th	31	9th	50·9	39·3	45·1	+ 2·6	33	8	4	27	45·2	•	•	•	6	0·68	+ 0·13	•	•	•	•	Rounton.
a West Witton ..	*52*	*10th*	*30*	*9th*	*48·9*	*37·9*	*43·4*	—	*27*	*11*	2	25	43·5	•	47·5	•	*7*	*0·84*	—	•	•	•	•	*West Witton.*
p Scarborough ..	54	10, 12	38	9, 10	51·4	42·6	47·0	+ 2·6	35	0	•	•	•	•	51·1†	•	6	0·95	+ 0·37	2·4	—	29	—	Scarborough.
p York	55	10th	31	9th	51·0	42·3	46·7	+ 3·3	33	0	•	•	46·5	+1·6	50·2	+0·9	6	1·06	+ 0·58	1·4	0·0	17	0	York.
											2	29	44·9	+0·2	50·3	+0·3	—	—	—	*1·4*	—	*16*	—	*Hull.*
a Spurn Head	53	10, 12	40	9, 10	50·9	42·6	46·8	+ 1·8	34	0	•	•	•	•	•	•	6	1·21	+ 0·79	*2·5*	—	*29*	—	*Spurn Head.*
b, South .. *a* Lincoln	55	10, 12	35	9th	51·6	41·6	46·6	+ 3·6	34	1	•	•	45·2	+2·1	50·3	+1·1	7	1·26	+ 0·82	•	•	•	•	Lincoln.
a Fulbeck	55	12th	32	9th	51·3	40·3	45·8	+ 3·0	34	5	2	23	46·5	+3·4	50·0	+0·1	7	1·24	+ 0·79	2·6	—	30	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·5	—	29	—	Skegness.
3. ENGLAND, E.											0	32	48·1	+3·6	51·9	+1·9	—	—	—	*2·3*	—	*26*	—	*Lowestoft.*
p Cromer	57	12, 13	40	9th	53·6	45·3	49·5	+ 6·2	53	0	•	•	•	•	•	•	7	1·01	—	2·7	—	31	—	Cromer.
p Little Massingham ..	55	10, 12	36	9, 10	53·4	41·3	47·4	+ 4·4	41	2	1	30	•	•	•	•	7	1·49	+ 0·91	2·5	—	29	—	Lit. Massingham
a, North .. *a* Yarmouth	57	12th	37	10th	52·9	43·7	48·3	+ 4·0	44	0	•	•	49·6	+6·8	51·6	+1·8	6	1·16	+ 0·62	2·6	—	30	—	Yarmouth.
a Norwich	56	12th	32	9th	52·6	42·3	47·5	+ 4·2	39	0	1	27	45·7	•	•	•	7	1·45	—	*2·7*	—	*31*	—	*Norwich.*
p Geldeston	58	12th	32	9th	54·1	44·1	49·1	+ 4·9	50	0	•	•	•	•	•	•	7	1·22	+ 0·69	3·0	+ 0·8	35	+ 9	Geldeston.
p Cambridge	58	11, 12	30	9th	54·4	41·3	47·9	+ 4·4	44	2	1	26	46·7	+2·9	51·3	+1·3	6	1·02	+ 0·57	3·2	+ 1·1	37	+13	Cambridge.
a Felixstowe ..	*58*	*12th*	*37*	*9th*	*53·4*	*43·7*	*48·6*	+ *3·6*	*46*	*0*	•	•	•	•	•	•	*6*	*1·27*	—	*3·1*	—	*36*	—	*Felixstowe.*
a, South .. *a* Clacton-on-Sea ..	56	11th	39	9th	52·9	45·0	49·0	+ 4·0	49	0	0	31	49·9	+2·4	53·6	+2·7	6	1·69	—	2·7	—	31	—	Clacton.
a Rothamsted	57	11th	30	9th	53·3	38·0	45·7	+ 2·7	43	11	•	•	•	•	•	•	7	1·47	+ 0·84	2·8	+ 0·7	32	+ 8	Rothamsted.
a Shoeburyness ..	*58*	*11th*	*33*	*9th*	*53·4*	*43·9*	*48·7*	+ *3·4*	*47*	*0*	1	30	50·0	+4·4	•	•	*6*	*1·91*	+ *1·46*	*2·7*	—	*31*	—	*Southend.*
p Tottenham	59	12th	34	9th	54·0	44·3	49·2	+ 4·6	50	0	0	33	•	•	53·5	+2·2	6	1·64	—	2·0	—	23	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	52	10th	32	9th	49·1	39·4	44·3	+ 1·8	27	7	1	23	44·2	+0·4	49·5	+1·6	—	—	—	*1·0*	—	*12*	—	*Huddersfield.*
a Bawtry	55	10th	32	10th	51·3	40·6	46·0	+ 3·0	34	4	2	29	45·2	+1·6	47·5	+1·2	7	1·28	+ 0·63	2·0	—	24	—	Harrogate.
p Buxton	*53*	*11th*	*29*	*9th*	*48·0*	*39·7*	*43·9*	+ *3·3*	*23*	*6*	2	24	45·6	•	48·8	•	7	1·21	+ 0·76	2·1	+ 0·5	24	+ 6	Worksop.
a, East .. *a* Nottingham	56	10th	29	9, 10	52·3	38·7	45·5	+ 2·4	38	9	1	25	45·0	+3·0	49·7	+1·6	*7*	*2·47*	+ *1·35*	*1·5*	—	*17*	—	*Buxton.*
p Birmingham, Edgbsn.	55	10th	37	9th	51·7	42·3	47·0	+ 3·8	35	0	1	27	46·4	+2·5	50·2	+1·1	7	0·97	+ 0·54	1·8	—	21	—	Nottingham.
a Raunds	57	10–12	28	9th	53·6	35·9	44·8	+ 2·1	45	17	3	21	47·7	•	52·9	•	7	1·00	+ 1·06	2·8	—	32	—	Birmingham.
p Oxford	59	11th	31	9th	51·4	42·9	48·7	+ 4·7	47	0	1	24	•	•	•	•	6	1·21	—	•	•	•	•	Raunds.
											1	30	48·1	+2·6	49·8	+1·0	7	1·53	+ 0·99	3·3	+ 1·3	38	+15	Oxford.
a Cheadle	53	10th	35	9th	49·3	40·0	44·7	+ 2·4	27	6	1	29	•	•	•	•	—	—	—	1·6	—	19	—	Sheffield.
p Shrewsbury ..	57	10th	27	9th	53·0	40·1	46·6	+ 2·6	40	5	1	29	•	•	•	•	6	1·33	+ 0·68	•	•	•	•	Cheadle.
b, West .. *a* Hereford	56	10th	30	9th	52·7	40·0	46·4	+ 2·9	39	6	1	24	•	•	•	•	7	1·15	—	•	•	•	•	Shrewsbury.
a Cirencester	62	10th	30	9th	54·4	39·4	46·9	+ 4·4	45	7	1	28	47·9	•	51·1	•	7	1·48	+ 0·92	•	•	•	•	Hereford.
a Bath	61	10th	32	9th	55·7	41·9	48·8	+ 4·3	48	0	•	•	49·5	+3·1	53·1	+1·3	6	1·62	+ 0·96	3·1	+ 1·1	36	+13	Cirencester.
5. ENGLAND, S.E.																	7	1·35	+ 0·66	2·7	—	32	—	Bath.
p Kew	57	10, 11	33	9th	53·7	43·6	48·7	+ 4·6	47	0	1	27	48·7	+4·0	53·1	+3·7	—	—	—	•	•	•	•	Canterbury.
a Marlborough	57	11th	28	9th	53·6	39·6	46·6	+ 4·1	42	7	1	26	47·8	+3·7	52·0	+1·7	5	1·08	+ 0·57	2·2	+ 0·5	25	+ 5	Kew.
a Margate	59	11th	40	9th	54·6	45·4	50·0	+ 4·4	56	0	1	22	•	•	52·1	•	7	1·68	+ 0·94	2·4	- 0·2	28	- 2	Marlborough.
a Wisley, Surrey ..	59	11th	32	9th	54·0	40·0	47·0	+ 2·2	43	6	1	30	51·0	+5·7	53·2	+3·7	6	2·07	+ 1·52	2·3	+ 0·2	26	+ 2	Margate.
											2	23	48·0	+4·0	51·5	+1·8	5	1·19	—	2·3	—	26	—	Wisley.
p Salisbury (Wilton) ..	58	11th	30	9th	54·3	39·4	46·9	+ 3·2	45	7	0	34	50·2	+5·6	54·3	+2·9	—	—	—	3·0	—	34	—	Worthing.
a Tunbridge Wells ..											1	28	48·4	•	•	•	7	2·50	+ 1·68	•	•	•	•	Salisbury.
a Dungeness	59	11th	39	9th	55·0	46·9	51·0	+ 4·6	63	0	•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
p Hastings..	60	11th	40	15th	55·6	45·6	50·6	+ 4·6	60	0	0	34	49·7	•	53·7	•	4	0·99	+ 0·41	3·0	—	34	—	Littlestone.
p Southampton	60	11th	37	9th	55·0	44·3	49·7	+ 3·7	54	0	0	32	•	•	•	•	6	1·46	+ 0·73	*3·4*	+ *0·9*	*38*	+*10*	*Hastings.*
a Ventnor	59	10, 11	43	13th	56·3	48·0	52·2	+ 4·2	71	0	•	•	•	•	•	•	6	1·85	+ 1·10	2·3	+ 0·1	26	+ 1	Southampton.
											0	32	50·8	+4·8	54·1	+2·3	7	1·22	+ 0·49	2·8	+ 0·5	33	+ 6	Ventnor.
											•	•	51·6	•	54·7	•	—	—	—	*2·4*	—	*27*	—	*Portsmouth.*
											•	•	49·3	•	51·8	•	—	—	—	2·9	+ 0·6	33	+ 7	Eastbourne.
LONDON.																	—	—	—	*3·0*	—	*34*	—	*Bournemouth.*
a Westminster	*60*	*11th*	*36*	*9th*	*55·0*	*43·7*	*49·4*	+ *4·9*	*52*	*0*	0	34	•	•	53·8	•	—	—	—	*2·8*	+ *0·4*	*32*	+*4*	*Brighton.*
a Greenwich	*59*	*11th*	*36*	*9th*	*54·3*	*41·9*	*48·1*	+ *3·6*	*43*	*0*	0	32	•	•	•	•	*6*	*1·06*	+ *0·53*	*1·8*	+ *0·8*	*21*	+*10*	*Westminster.*
a Hampstead	*58*	*11th*	*39*	*9th*	*53·6*	*43·0*	*47·8*	—	*41*	*0*	1	25	•	•	•	•	*6*	*1·50*	+ *0·97*	*2·5*	+ *0·9*	*29*	+*10*	*Greenwich.*
a Camden Square ..	*60*	*11th*	*34*	*9th*	*54·7*	*41·7*	*48·2*	—	*45*	*1*	4	21	•	•	•	•	*6*	*1·36*	—	*2·1*	—	*24*	—	*Hampstead.*
											0	31	•	•	•	•	*6*	*1·34*	—	*1·9*	—	*22*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	51	11th	34	9th	48·4	42·4	45·4	+ 1·8	24	0	•	•	•	•	•	•	6	2·42	+ 1·16	•	•	•	•	
p Glasgow	52	10, 11, 13	38	9th	48·9	41·6	45·3	+ 2·3	25	1	1	29	•	•	•	•	7	1·85	+ 1·00	1·1	+ 0·1	14	+ 2	Glasgow.
p Rothesay	52	10th	40	9, 15	48·9	42·1	45·5	+ 1·5	25	0	0	31	45·0	•	48·7	+1·6	7	2·23	+ 1·08	*1·3*	—	*16*	•	*Rothesay.*
a Kilmarnock ..	54	11th	32	9th	50·7	39·7	45·2	+ 2·5	32	6	•	•	•	•	•	•	7	1·55	—	*1·8*	—	*22*	—	*Kilmarnock.*
a Colmonell ..	54	10, 11	36	9th	51·3	42·9	47·1	+ 4·4	36	0	0	32	•	•	•	•	7	1·78	+ 0·54	•	•	•	•	
p Dumfries	52	11th	34	9th	49·9	40·7	45·3	+ 2·3	29	4	2	30	45·0	•	49·4	•	7	1·33	+ 0·43	*1·8*	—	*22*	—	*Dumfries.*
p Cally, Gatehouse ..	52	10, 11, 13	31	9th	50·7	39·4	45·1	+ 2·1	33	7	•	•	•	•	•	•	7	2·04	+ 0·77	•	•	•	•	
b I. OF MAN																								
p Douglas	55	11th	42	9th	51·3	44·9	48·1	+ 2·6	43	0	0	33	•	•	•	•	7	2·45	+ 1·35	2·4	+ 0·3	29	+ 4	Douglas.
7. *a*, ENGLAND, N.W.											1	29	45·4	+4·3	49·5	+2·0	—	—	—	*1·5*	—	*17*	—	*Burnley.*
p Aspatria	54	10th	36	9th	50·7	41·7	46·2	+ 3·4	31	1	0	31	•	•	•	•	—	—	—	2·4	—	28	•	Hoylake.
p Newton Rigg	52	9th	28	9th	49·1	39·1	44·1	+ 2·7	27	8	1	30	45·5	•	49·8	•	6	0·93	- 0·05	2·4	—	29	—	Aspatria.
p Stonyhurst	54	10, 11	36	9th	50·6	42·6	46·6	+ 3·6	32	*0*	2	24	45·3	+2·0	48·5	+1·2	6	1·38	+ 0·53	1·7	0·0	21	0	Newton Rigg.
p Blackpool	54	10th	35	9th	52·0	43·0	47·5	+ 3·0	39	0	0	31	•	•	•	•	7	1·50	+ 0·45	1·4	- 0·2	16	- 2	Stonyhurst.
p Manchester (Whit. Pk.)	56	9, 10	36	9th	52·9	42·7	47·8	+ 3·3	41	0	1	29	47·9	•	51·4	•	7	1·22	+ 0·38	2·2	+ 0·6	26	+ 6	Blackpool.
a Liverpool (Bidston) ..	55	10th	39	9, 10	51·3	42·0	46·7	+ 3·0	33	0	•	•	•	•	•	•	7	1·39	+ 0·76	*1·3*	+ *0·6*	*15*	+ 7	*Whit. Park.*
a Hawarden Bridge ..	56	10th	35	9th	52·7	43·1	47·9	+ 2·5	41	0	•	•	•	•	•	•	7	1·33	+ 0·71	*2·6*	—	*30*	—	*Liverpool.*
											1	29	45·1	+3·3	48·8	+1·4	7	1·04	+ 0·49	*1·8*	+ *0·2*	*21*	+ *3*	*Southport.*
b, NORTH WALES.											1	28	46·9	+4·2	53·1	+3·3	—	—	—	*0·9*	—	*11*	—	*Manchester (City).*
p Llandudno	58	10th	40	9, 10	53·4	43·6	48·5	+ 1·9	46	0	•	•	•	•	•	•	7	1·34	+ 0·62	2·6	+ 0·7	30	+ 8	Llandudno.
a Holyhead	57	10th	44	13th	53·4	46·1	49·8	+ 2·8	55	0	•	•	•	•	•	•	7	1·95	+ 0·98	*2·6*	—	*30*	—	*Holyhead.*
p Bettws-y-Coed ..	58	11th	37	9th	53·4	41·7	47·6	+ 1·3	40	1	0	36	46·9	+3·9	50·3	+1·9	7	1·98	—	1·5	—	17	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	2·5	—	29	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.
‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	58	10th	29	9th	51·8	37·9	44·9	+ 2·3	38	11	1	27	46·3	+1·8	50·7	+0·8	7	2·68	—	2·6	—	30	—	Aberystwyth.
a Pembroke	57	10, 11	44	13th	55·0	48·6	51·8	+ 3·8	69	0	•	•	•	•	•	•	7	1·60	+ 0·70	2·7	+ 0·6	31	+ 6	Pembroke.[Wells
p Cardiff	56	11th	38	9th	52·3	43·3	47·8	+ 3·3	41	0	0	32	47·8	+4·3	52·2	+2·4	7	2·08	+ 1·12	*2·9*	—	*33*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	58	10, 11	38	9th	54·0	43·4	48·7	+ 3·7	47	0	0	33	•	•	•	•	7	1·54	+ 0·78	*2·6*	—	*30*	—	*Clifton.*
a Shaftesbury	55	11th	38	13th	51·6	43·0	47·3	+ 3·3	37	0	•	•	48·3	•	52·6	•	7	1·62	+ 0·79	•	•	•	•	Shaftesbury.
a Arlington	59	10th	39	13th	53·0	43·6	48·3	+ 3·6	44	0	•	•	•	•	•	•	7	2·90	+ 1·56	•	•	•	•	Arlington.
a Newquay	*58*	*10th*	*43*	*9th*	*55·1*	*47·1*	*51·1*	+ *2·8*	*64*	*0*	•	•	51·1	•	•	•	7	*1·52*	+ *0·79*	3·0	+ 0·4	34	+ 5	Newquay.
a Cullompton	59	10th	32	9th	54·7	42·3	48·5	+ 3·5	46	0	1	27	49·0	•	•	•	7	2·06	+ 1·21	2·3	+ 0·4	26;	+ 4	Cullompton.
a Portland	58	10, 11	46	13th	55·9	50·6	53·3	+ 5·4	79	0	•	•	•	•	•	•	8	1·11	—	*2·5*	—	*38*	—	*Weymouth.*
p Plymouth	61	9th	42	13th	56·0	47·4	51·7	+ 4·2	68	0	0	36	50·6	+3·6	•	•	7	1·85	+ 0·99	3·1	+ 0·8	35	+ 9	Plymouth.
a Falmouth	59	10th	43	13, 14	55·4	46·3	50·9	+ 2·4	62	0	0	39	•	•	•	•	7	2·70	+ 1·56	3·1	+ 0·5	35	+ 6	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	54	11th	40	15th	50·4	43·0	46·7	+ 1·2	33	0	•	•	•	•	•	•	7	1·48	+ 0·73	•	•	•	•	• •
{ *a* Blacksod Point ..	55	10th	41	13th	51·9	45·4	48·7	+ 2·1	47	0	•	•	•	•	•	•	6	1·45	+ 0·22	•	•	•	•	• •
{ *p* Markree Castle ..	57	10th	39	15th	52·3	42·4	47·4	+ 3·6	38	0	0	33	48·1	•	51·1	•	7	1·74	+ 0·75	2·0	+ 0·1	24	+ 1	Markree Castle.
{ *a* Birr Castle	56	9, 10	38	13, 14	52·0	42·3	47·2	+ 3·7	36	0	•	•	•	•	•	•	7	1·00	+ 0·24	*2·6*	+ *0·5*	*30*	+ *5*	*Birr Castle.*
b, East .. { *p* Armagh	58	10th	37	13th	51·9	42·6	47·3	+ 3·6	37	0	1	30	47·4	+3·4	50·1	+1·0	7	1·21	+ 0·51	1·9	- 0·1	23	- 1	Armagh.
{ *a* Donaghadee	56	10th	39	15th	51·1	44·9	48·0	+ 2·8	42	0	•	•	•	•	•	•	6	1·59	+ 0·84	•	•	•	•	• •
											0	34	47·9	+2·7	50·5	+1·2	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	33	•	•	•	•	—	—	—	3·0	+ 0·6	35	+ 7	Phœnix Park.
a, East .. { *p* Dublin, City	56	10th	37	13th	51·7	43·7	47·7	+ 1·7	40	0	0	35	•	•	•	•	7	1·01	+ 0·35	•	•	•	•	Dublin City.
{ *a* Kilkenny	57	10th	39	13th	52·6	44·0	48·3	+ 4·3	44	0	•	•	•	•	•	•	7	1·27	+ 0·52	•	•	•	•	• •
{ *a* Waterford ..	56	9, 10	39	13th	53·3	45·0	49·2	+ 3·7	50	0	•	•	•	•	•	•	6	1·49	+ 0·57	•	•	•	•	• •
{ *a Carrick-on-Suir* ..	*54*	*9, 10*	*35*	*13th*	*50·9*	*42·6*	*46·8*	—	*34*	*0*	*0*	*33*	•	•	•	•	7	*1·91*	—	*2·4*	—	*28*	—	*Carrick-on-Suir.*
b, West .. { *a* Birr Castle	56	9, 10	38	13, 14	52·0	42·3	47·2	+ 3·7	38	0	•	•	•	•	•	•	7	1·00	+ 0·24	2·6	+ 0·5	30	+ 5	Birr Castle.
{ *a* Foynes	56	10th	39	12th	52·7	42·4	47·6	+ 2·1	39	0	•	•	•	•	•	•	7	1·89	+ 0·93	•	•	•	•	• •
{ *a* Cahir	57	10th	40	13, 15	52·1	44·3	48·2	+ 2·9	44	0	•	•	•	•	•	•	7	2·05	—	•	•	•	•	• •
{ *a* Killarney	58	10th	41	13th	53·6	44·9	49·3	+ 3·3	51	0	•	•	•	•	•	•	7	2·50	+ 1·12	•	•	•	•	• •
{ *a* Valencia	58	10th	42	12th	54·0	46·4	50·2	+ 2·2	57	0	•	•	•	•	•	•	7	1·73	+ 0·39	1·8	- 0·5	21	- 5	Valencia.
{ *a* Roche's Point	56	10, 11	41	13th	53·3	48·4	49·9	+ 2·3	55	0	•	•	•	•	•	•	6	1·75	+ 0·70	2·8	—	32	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	58	10th	43	13th	55·1	48·4	51·8	+ 1·6	69	0	•	•	•	•	•	•	7	1·07	+ 0·26	2·4	- 0·2	27	- 2	Scilly.
a Jersey, St. Aubins ..	62	11th	43	9th	57·6	47·7	52·7	+ 3·6	75	0	•	•	•	•	•	•	7	2·13	+ 1·22	2·9	+ 0·2	32	+ 3	St. Heliers.
a Guernsey (Villa Carey)	61	9, 11	41	13th	57·3	47·3	52·3	+ 2·8	72	0	0	35	52·0	+3·0	55·1	+2·0	7	1·79	+ 0·74	2·5	+ 0·3	28	+ 4	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·9 hrs. 33 °/₀; Ramsgate, 3·0 hrs. 34 °/₀; Rhyl, 3·0 hrs. 35 °/₀; Salcombe, 3·6 hrs. 40 °/₀; Tenby, 3·9 hrs. (+1·7) 45 °/₀ (+19); Torquay, 3·6 hrs. (+1·4) 40 °/₀ (+15).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, November 15th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	50	50	50·0	+3·1	SCOTLAND, W. ..	{ Lamlash	50	49	49·7	+0·7
	{ Kirkwall	50	48	49·1	+5·0		{ Ballantrae	52	48	50·4	+4·2
	{ Wick	50	48	49·3	+0·1	ENGLAND, N.W. ..	Port Erin	54	51	52·7	+2·0
	{ Cromarty	49	45	47·9	+3·2		{ Newquay	55	54	54·1	+1·7
SCOTLAND, E. ..	{ Pennan Bay	50	47	48·8	+4·1	ENGLAND, S.W. ..	{ Scilly	54	53	53·5	—
	{ Aberdeen, Cove Bay	51	50	50·4	+3·9		{ Plymouth‡	55	54	54·9	+1·8
ENGLAND, N.E. ..	{ Burnmouth, Berwick	50	49	49·5	+3·5		{ Salcombe	56	51	54·2	+1·8
	{ Scarborough	48	46	46·9	−0·2	ENGLAND, N.W. ..	{ Sheephaven	51	48	48·9	+0·3
ENGLAND, E. ..	Shipwash Lightship	56	52	53·7	+3·6		{ Teelin	52	49	50·5	+2·5
ENGLAND, S.E. ..	Eastbourne‡	55	53	54·4	+4·9	IRELAND, S.W. ..	{ Cleggan	51	50	50·6	+3·4
							{ Seafield	54	49	51·4	+1·8

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.
The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.
The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.
Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.
Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-SIXTH WEEK—November 9th to November 15th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	53	30	48·5	40·1	44·3	+ 1·9	24	+ 4	5	−11	6	+ 1	1·40	+0·17	1·0	−0·1	13	− 2
Eastern.																		
1. SCOTLAND, EAST ...	54	29	48·7	38·3	43·5	+ 1·9	26	+ 7	10	−12	5	+ 1	0·59	−0·11	1·7	0·0	21	0
2. ENGLAND, N.E.	55	31	50·9	41·0	46·0	+ 2·8	32	+ 9	3	−11	6	+ 2	0·87	+0·31	2·2	+0·4	27	+ 5
3. ENGLAND, EAST ...	59	30	53·5	42·8	48·2	+ 4·8	43	+ 17	0	−16	7	+ 3	1·35	+0·85	2·7	+0·6	31	+ 7
4. MIDLAND COUNTIES ...	62	27	52·5	40·1	46·3	+ 3·6	38	+ 15	5	−14	7	+ 4	1·34	+0·79	2·4	+0·7	28	+ 8
5. ENGLAND, S.E.	60	28	54·7	43·6	49·2	+ 4·0	50	+ 17	0	−10	6	+ 2	1·56	+0·90	2·6	+0·6	29	+ 6
Western.																		
6. SCOTLAND, WEST ...	55	31	50·0	41·7	45·9	+ 2·1	29	+ 4	1	−11	7	+ 3	1·96	+0·74	1·8	+0·2	21	+ 3
7. ENGLAND, N.W.	58	28	52·0	42·6	47·3	+ 3·1	37	+ 11	0	−10	7	+ 3	1·41	+0·61	2·1	+0·5	24	+ 5
8. ENGLAND, S.W.	61	29	54·0	44·6	49·3	+ 3·3	51	+ 15	0	− 8	7	+ 3	2·01	+1·07	2·7	+0·6	31	+ 7
9. IRELAND, NORTH ...	58	37	51·6	43·4	47·6	+ 3·6	39	+ 13	0	−12	7	+ 3	1·41	+0·48	2·0	0·0	23	0
10. IRELAND, SOUTH ...	58	37	52·8	44·4	48·6	+ 3·1	46	+ 11	0	−10	7	+ 3	1·63	+0·64	2·6	+0·3	29	+ 3
11. ENGLISH CHANNEL ...	62	41	56·7	47·8	52·3	+ 2·7	72	+ 18	0	− 1	7	+ 2	1·66	+0·77	2·6	+0·1	29	+ 1

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 11 Weeks, August 31st to November 15th, 1913.

0. SCOTLAND, NORTH ...	71	28	*	*	*	*	608	+111	22	−49	47	− 8	9·93	−2·98	2·6	+0·1	25	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	74	22	*	*	*	*	622	+ 94	41	−53	42	− 3	5·75	−1·48	2·7	−0·3	25	− 3
2. ENGLAND, N.E.	79	28	*	*	*	*	804	+180	14	−33	43	+ 2	5·98	−0·29	3·3	0·0	30	0
3. ENGLAND, EAST ...	76	29	*	*	*	*	935	+222	5	−50	44	+ 4	6·88	+0·98	3·8	+0·1	35	+ 1
4. MIDLAND COUNTIES ...	79	27	*	*	*	*	841	+190	20	−49	43	+ 4	7·62	+1·29	3·1	−0·1	28	− 2
5. ENGLAND, S.E.	76	28	*	*	*	*	1000	+199	0	−35	41	+ 2	9·37	+2·11	3·9	+0·1	35	+ 1
Western.																		
6. SCOTLAND, WEST ...	73	25	*	*	*	*	713	+119	13	−37	44	− 2	9·41	−2·66	2·6	−0·4	24	− 4
7. ENGLAND, N.W.	79	25	*	*	*	*	844	+175	5	−29	42	− 2	7·64	−1·27	3·2	+0·1	30	+ 1
8. ENGLAND, S.W.	78	28	*	*	*	*	950	+183	0	−26	46	+ 1	11·10	+1·05	3·4	−0·2	31	− 2
9. IRELAND, NORTH ...	71	24	*	*	*	*	782	+159	18	−23	50	0	9·77	+0·53	3·0	0·0	28	0
10. IRELAND, SOUTH ...	73	24	*	*	*	*	865	+145	21	−14	54	+ 9	12·60	+3·53	3·2	−0·3	29	− 3
11. ENGLISH CHANNEL ...	77	41	*	*	*	*	1165	+174	0	− 1	46	− 3	9·19	+0·40	4·7	+0·3	42	+ 2

THE YEAR.—Aggregates, &c., for the Period of 46 Weeks, December 29th, 1912, to November 15th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	2,139	+ 88	446	−182	196	−19	38·64	−5·68	3·1	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	2,293	− 5	642	− 72	171	− 7	23·13	−3·67	3·6	−0·4	28	− 3
2. ENGLAND, N.E.	82	18	*	*	*	*	2,734	+160	420	−102	161	0	20·30	−1·43	3·7	−0·6	29	− 5
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,171	+198	308	−268	157	+ 1	19·89	−0·92	4·2	−0·5	33	− 4
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	3,019	+132	412	−190	158	+ 4	24·55	+1·46	3·5	−0·7	28	− 5
5. ENGLAND, S.E.	84	22	*	*	*	*	3,345	+125	221	−195	150	+ 1	24·60	+1·23	4·3	−0·4	34	− 4
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,570	+ 73	336	−139	182	− 4	36·21	−4·71	3·6	−0·5	28	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,855	+119	303	−117	175	+ 3	29·95	−0·17	3·9	−0·2	31	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	3,197	+138	221	−106	176	+ 6	34·90	+2·20	4·2	−0·4	33	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,652	+ 42	315	− 71	202	0	33·96	+0·86	3·6	−0·2	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	3,053	+ 47	264	− 30	206	+26	40·13	+5·88	3·9	−0·4	31	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,700	+123	38	− 72	174	− 8	27·46	−0·01	4·9	−0·8	39	− 6

M.O., November 19, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH: or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) No. 47. FORTY-SEVENTH WEEK, SUNDAY, NOVEMBER 16TH, TO SATURDAY, NOVEMBER 22ND, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather continued very unsettled, with frequent rain, and occasional intervals of bright sunshine. Thunderstorms occurred in some Scottish localities on the 18th, 19th and 22nd, and lightning was observed in other parts of the Kingdom.

Temperature was again above the normal, the excess being about 6°·5 in England East and the Midland Counties and about 5°·5 in some other English districts. The highest of the maxima were recorded early in the week—mostly on the 17th—and ranged from 60° in Scotland East, England East, the Midland Counties and Ireland South to 55° in Scotland West. The lowest of the minima, which were generally registered on the 22nd, varied from 25° in Scotland East, and 27° in Ireland South, to 32° in Scotland North, and to 42° in the English Channel. The lowest grass readings were 21° at Balmoral, West Linton and Hampstead, 22° at Worksop, Marlborough and Newton Rigg and 23° at Crathes and Markree Castle. The temperature of the soil continued above the normal at a depth both of 1 foot and 4 feet. At many stations in England and Wales the excess of warmth at a depth of 1 foot amounted to more than 6°, and at Worthing and Southport to more than 6½°.

Mean Temperature of the Sea was again above the normal, and also higher than in the corresponding week of last year. The means for the week ranged from about 53°·5 on the coasts of Devon and Cornwall, and 52°·7 at Eastbourne, to below 50° on the north and north-east coasts generally, and to 45°·3 at Cromarty.

Rainfall varied greatly in different parts of the Kingdom. In Scotland North and West and England South-East, North-West and South-West it was above the average, but in the other districts it was rather deficient. More than an inch fell in several localities within 24 hours. At Fort William on the 16th there was 1·3 in. and on the 19th 1·6 in.; at Glencarron on the 16th 1·2 in. and on the 19th 2·0 in.; at Lancaster on the 20th 1·4 in., at Llangammarch Wells 1·1 in. and at Aberdovery 1·0 in.; at Canterbury on the 21st 1·0 in. and at Salisbury 1·2 in.

Bright Sunshine did not differ much from the average over the United Kingdom as a whole. In Scotland East and England North-East and East the daily mean exceeded 2 hours, and was equal to 27 or 28 per cent. of the possible amount. In Scotland North the daily mean was only 1·1 hour, and the percentage 14.

Barometer and Wind. The only depressions that advanced directly across the United Kingdom were some secondaries to very large and deep systems moving in an Easterly or North-Easterly direction over the Icelandic region. These systems extended southwards and sometimes caused a steep gradient over the British Isles, where the general force of the wind (from some point between South-West and West) was fresh, and gales not uncommon. On some parts of the western and north-western coasts the wind blew with the force of a gale on almost every day, and about the middle of the week gales were experienced on most other parts of our coasts. On Saturday a high pressure system extended over England from the south-westward, and the wind veered to the North-Westward, while it decreased in force over the Kingdom generally.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 187.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Very unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Very heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Heavy	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Abundant	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 12 weeks from Aug. 31st, 1913.	Warmth ...	5 * 0	7 * 0	7 * 0	9 * 0	10 · 0	10 * 0	5 * 0	8 * 0	8 * 0	7 * 0	8 * 2	10 * 0
	Rainfall ...	3 * 4	2 * 3	4 * 5	5 * 5	5 * 3	5 * 4	2 * 3	4 * 5	3 * 4	3 * 2	7 * 1	4 * 2
	Sunshine ...	5 * 3	5 * 6	5 * 3	3 * 1	4 * 3	4 * 2	1 * 4	6 * 3	4 * 5	2 * 4	2 * 5	2 * 3

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(32725—24.) Wt. 196—786. 450. 11/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*51*	*17th*	*35*	*16th*	*47·0*	*38·7*	*42·9*	—	*20*	*9*			43·1				7	*1·08*	—	*1·0*	—	*15*	—	*Baltasound.*
a Islands .. *a* Lerwick	52	17th	37	22nd	49·0	39·3	44·2	+ 1·7	27	8							7	2·24	—	0·9	- 0·2	13	- 2	Deerness.
a Stornoway	53	16, 17	35	22nd	48·3	36·6	42·5	0·0	26	15							7	2·49	+ 1·14	1·1	- 0·2	15	- 3	Stornoway.
a Castlebay, Barra Isd.‡ ..	*54*	*16th*	*39*	*16, 19*	*50·7*	*42·1*	*46·4*	*+ 0·9*	*31*	*0*							7	*0·84*	—	*0·8*	—	*11*	—	*Castlebay.*
b, Mainland. *a* Wick	55	17th	34	16, 17, 22	48·9	36·0	42·5	+ 0·9	29	17							6	1·14	+ 0·49					
p Strathpeffer ..	56	17th	32	22nd	49·4	33·6	43·0	+ 2·4	30	15							6	1·45	+ 0·79	1·4	+ 0·2	19	+ 3	Strathpeffer.
p Glencarron ..	52	17th	34	22nd	47·1	36·7	41·9	+ 1·5	14	22							7	6·05	+ 3·92					
p Fort Augustus..	55	17th	35	22nd	48·4	37·9	43·2	+ 2·0	26	11							7	2·36	+ 1·35	0·8	+ 0·3	11	+ 4	Fort Augustus.
p Fort William ..	54	17th	35	22nd	48·1	38·9	43·5	+ 1·1	24	9							7	5·09	+ 3·16					
1. SCOTLAND, E.																								
p Gordon Castle..	57	17th	34	22nd	48·3	36·7	42·5	+ 0·8	26	15	3	23	42·4	+2·4	46·5	+1·6	—	—	—	2·4	—	32	—	Crathes S.
a Nairn	56	17th	35	22nd	49·3	37·6	43·5	+ 2·7	29	12							4	0·29	- 0·27	*2·5*	—	*34*	—	*Gordon Castle*
a Aberdeen ..	60	17th	36	22nd	50·6	38·7	44·7	+ 3·1	33	9					46·9	+2·0	5	0·64	+ 0·17	2·1	—	28	—	Nairn.
a Balmoral ..	54	17th	25	22nd	47·6	33·6	40·6	+ 2·8	16	33	2	0	0·19	- 0·48	2·1	+ 0·4	28	+ 5	Aberdeen.					
p Crieff	54	17th	31	22nd	47·7	37·0	42·4	+ 1·6	24	14	3	21					4	0·46	- 0·40					Balmoral.
a Leith	57	17th	37	22nd	52·0	40·7	46·4	+ 3·6	36	4							5	0·95	- 0·10	2·3	—	30	—	Balruddery.
p West Linton ..	53	17th	28	22nd	47·7	35·4	41·6	+ 2·0	16	27	3	21					5	0·47	+ 0·02					
p Marchmont ..	57	17th	32	22nd	48·1	37·7	42·9	+ 2·6	24	12	1	26	41·9	+3·3			6	1·00	—	*1·1*	—	*14*	—	*West Linton.*
2. ENGLAND, N.E.																	4	0·54	- 0·15	1·5	0·0	19	0	Marchmont.
a Alnwick Castle ..	57	17th	36	22nd	52·4	40·4	46·4	+ 4·4	38	4	1	26	42·4	+4·1	46·2	+2·7	4	0·39	- 0·35	2·9	—	37	—	Cockle Park.
a Shields	58	17th	36	22nd	53·4	42·1	47·8	+ 5·0	41	0							5	0·36	- 0·11					
p Durham	58	17th	35	22nd	52·6	40·4	46·5	+ 5·1	38	4	1	28					3	0·43	- 0·10	2·5	+ 0·9	32	+11	Durham.
a, North .. *a* Rounton	57	17th	32	22nd	52·1	39·6	45·9	+ 4·5	37	7	2	24	44·8				4	0·79	+ 0·33					Rounton.
a West Witton ..	*54*	*20th*	*36*	*22nd*	*51·4*	*41·3*	*46·4*	—	*34*	*2*	1	30	44·6		46·6		*6*	*1·58*	—					*West Witton.*
p Scarborough ..	56	17th	39	22nd	52·4	41·4	46·8	+ 3·6	37	2					49·9†		4	0·30	- 0·26	1·8	—	23	—	Scarborough.
p York	58	17th	34	22nd	53·7	42·1	47·9	+ 5·5	41	0			46·6	+3·6	49·3	+1·4	5	0·37	- 0·09	1·3	+ 0·1	16	+ 2	York.
											1	26	45·0	+3·8	49·4	+1·2	—	—	—	*0·8*	—	*10*	—	*Hull.*
a Spurn Head ..	56	17, 18	40	22nd	52·3	44·0	48·2	+ 4·5	43	0							3	0·29	- 0·12	*1·3*	—	*16*	—	*Spurn Head.*
b, South .. *a* Lincoln	58	17th	35	22nd	53·3	43·0	48·2	+ 6·5	43	0			45·6	+4·7	49·4	+1·8	3	0·23	- 0·19					Lincoln.
a Fulbeck	57	17th	29	22nd	52·4	40·7	46·6	+ 5·4	38	4	1	24	46·9	+5·5	50·1	+1·6	4	0·41	- 0·03	2·3	—	28	—	Rauceby.
																	—	—	—	2·7	—	33	—	Skegness.
3. ENGLAND, E.											0	31	47·7	+4·7	50·9	+2·6	—	—	—	*2·5*	—	*39*	—	*Lowestoft.*
p Cromer	58	17th	36	22nd	52·7	42·7	47·7	+ 5·5	40	0							5	0·41	—	2·2	+ 0·4	27	+ 4	Cromer.
p Little Massingham ..	56	17th	34	22nd	52·0	41·0	46·5	+ 4·8	36	3	1	26					3	0·27	- 0·29	1·8	—	22	—	Lit. Massingham.
a, North .. *a* Yarmouth	58	17th	39	19th	53·1	43·3	48·2	+ 5·1	43	0			47·0	+5·7	50·7	+2·6	2	0·34	- 0·18	2·3	—	28	—	Yarmouth.
a Norwich	58	17th	39	22nd	52·9	44·6	48·8	+ 6·4	48	0	0	34	46·0				3	0·35	—	*2·3*	—	*28*	—	*Norwich.*
p Geldeston	60	17th	31	22nd	54·1	42·9	48·5	+ 5·5	46	0					52·4	+2·8	2	0·76	—	2·2	—	26	—	Tottenham.
																	4	0·41	- 0·10	2·7	+ 0·8	33	+ 9	Geldeston.
p Cambridge	60	17th	29	22nd	54·9	42·4	48·7	+ 6·4	47	0	1	29	47·5	+5·4	50·7	+2·3	1	0·24	- 0·13	2·5	+ 0·7	30	+ 8	Cambridge.
a Felixstowe ..	*59*	*17th*	*37*	*22nd*	*53·9*	*44·6*	*49·3*	*+ 5·4*	*51*	*0*	*3*		*0·53*				*3·0*	—	*36*	—	*Felixstowe.*			
a Clacton-on-Sea ..	57	17th	39	22nd	52·9	43·9	48·4	+ 4·8	45	0	0	35	48·8	+2·9	52·5	+2·9	2	0·34	—	2·7	—	32	—	Clacton.
b, South .. *a* Rothamsted ..	59	17th	35	22nd	53·3	43·4	48·4	+ 6·4	45	0							5	0·53	- 0·07	2·2	+ 0·4	26	+ 4	Rothamsted.
a Shoeburyness ..	*59*	*17th*	*38*	*22nd*	*54·0*	*44·7*	*49·4*	*+ 5·4*	*52*	*0*	0	33	49·1	+5·7			2	*0·53*	+ *0·11*	*2·5*	—	*30*	—	*Southend.*
p Tottenham	56	17, 18, 21	36	22nd	53·1	45·9	49·5	+ 6·0	53	0	0	32			52·4	+2·8	2	0·76	—	2·2	—	26	—	Tottenham.
4. MIDLAND COUNTIES.											1	26	45·2	+5·1	48·5	+2·0	—	—	—	*0·4*	—	*5*	—	*Huddersfield.*
a Harrogate	54	17th	34	22nd	51·3	41·4	46·4	+ 5·2	33	2	1	28	45·5	+3·6	47·1	+2·3	5	0·62	0·00	1·4	—	18	—	Harrogate.
a Bawtry	59	17th	33	22nd	54·1	44·0	49·1	+ 7·3	50	0	1	22	46·3		48·5		5	0·20	- 0·25	0·9	- 0·5	11	- 6	Worksop.
p Buxton	*54*	*17th*	*33*	*22nd*	*49·1*	*40·3*	*44·7*	*+ 4·9*	*26*	*5*	1	30	45·4	+5·4	49·1	+2·2	*6*	*1·64*	+ *0·54*	*1·2*	—	*15*	—	*Buxton.*
a, East .. *a* Nottingham	57	17, 18	34	22nd	53·6	41·6	47·6	+ 5·4	41	1	1	28	45·8	+5·6	48·4	+2·2	3	0·30	- 0·14	1·0	—	12	—	Nottingham.
p Birmingham, Edgbsn.	56	18th	37	19, 22	51·7	42·4	47·1	+ 5·0	36	0	1	28	46·9	+4·5	49·9	+1·7	4	0·35	- 0·18	1·1	—	14	—	Birmingham.
a Raunds	59	17th	32	22nd	53·4	41·7	47·6	+ 5·9	40	1	2	25	47·5		52·1		3	0·28	—					Raunds.
p Oxford	57	17th	34	22nd	53·3	43·7	48·5	+ 5·8	46	0	1	25					4	0·35	- 0·18	1·9	+ 0·1	23	+ 2	Oxford.
											0	31	46·2	+4·4	49·0	+1·4	—	—	—	1·6	—	20	—	Sheffield.
a Cheadle	54	18th	33	22nd	51·9	40·7	46·3	+ 5·3	36	4	2	29					6	0·71	+ 0·06					Cheadle.
p Shrewsbury ..	58	17, 18	35	22nd	55·0	43·3	49·2	+ 6·1	50	0	0	31					3	0·22	—					Shrewsbury.
b, West .. *a* Hereford ..	60	17th	31	22nd	54·7	44·9	49·8	+ 7·3	55	0	1	25					3	0·45	- 0·10					Hereford.
a Cirencester ..	57	16th	33	19th	52·7	41·7	47·2	+ 5·7	38	1	0	31	47·8		50·3		4	0·66	0·00	1·5	- 0·3	18	- 3	Cirencester.
a Bath	59	18th	33	22nd	55·7	44·3	50·0	+ 6·6	56	0			49·0	+4·3	52·2	+1·9	4	0·60	- 0·09	1·2	—	14	—	Bath.
5. ENGLAND, S.E.											0	34	48·4	+5·2	52·2	+3·3	—	—	—					
p Kew	58	17th	32	22nd	53·0	43·9	48·5	+ 5·5	46	0	1	27	48·1	+5·7	51·1	+2·2	3	0·82	+ 0·35	2·1	+ 0·6	25	+ 7	Kew.
a Marlborough ..	56	17th	30	22nd	51·9	41·9	46·9	+ 5·5	35	0	2	22			51·4		3	0·75	+ 0·02	1·4	- 0·1	17	- 1	Marlborough.
a Margate	58	17th	41	19th	54·1	45·4	49·8	+ 5·4	55	0	0	38	50·1	+5·4	51·9	+3·9	2	0·49	- 0·03	2·0	+ 0·1	24	+ 2	Margate.
a Wisley, Surrey ..	58	17th	36	22nd	53·4	44·6	49·0	+ 5·3	49	0	2	24	48·0	+5·6	50·7	+2·4	2	0·69	—	2·3	—	27	—	Wisley.
											0	32	49·8	+6·7	53·2	+3·3	—	—	—	2·0	—	23	—	Worthing.
p Salisbury (Wilton) ..	58	17th	30	19th	53·9	41·4	47·7	+ 5·2	42	2	2	26	48·3				5	1·36	+ 0·55					Salisbury.
a Tunbridge Wells ..																	—	—	—					Tunbridge Wells.
a Dungeness	57	17th	39	19, 22	54·3	44·7	49·5	+ 4·2	53	0							2	0·49	- 0·08	2·0	—	24	—	Littlestone.
p Hastings.. ..	58	17th	38	19th	54·3	46·0	50·2	+ 5·2	57	0	0	31	49·3		52·6		5	0·63	- 0·08	*2·5*	+ *0·3*	*29*	+ *3*	*Hastings.*
p Southampton	59	17th	36	19, 22	53·9	44·4	49·2	+ 4·6	50	0	0	31					5	1·07	+ 0·34	1·9	0·0	23	0	Southampton.
a Ventnor	58	17th	40	22nd	55·0	47·4	51·2	+ 4·0	64	0							5	0·55	- 0·20	2·1	0·0	24	0	Ventnor.
													50·7	+5·9	53·1	+2·8	—	—	—	*1·9*	- *0·1*	*22*	- *2*	*Portsmouth.*
													51·6		53·8		—	—	—	2·4	—	29	—	Eastbourne.
													49·1		50·9		—	—	—	*1·9*	—	*23*	—	*Bournemouth.*
LONDON.											0	35			53·0		—	—	—	*1·9*	- *0·2*	*22*	- *3*	*Brighton.*
a Westminster	*60*	*17th*	*39*	*22nd*	*55·0*	*45·1*	*50·1*	*+ 6·7*	*57*	*0*	0	35					*3*	*0·73*	+ *0·22*	*1·6*	+ *0·8*	*19*	*+10*	*Westminster.*
a Greenwich	*60*	*17th*	*39*	*22nd*	*54·3*	*45·1*	*49·7*	*+ 6·3*	*54*	*0*	1	28					*3*	*0·64*	+ *0·13*	*2·2*	+ *0·8*	*26*	+ *9*	*Greenwich.*
a Hampstead	*57*	*17th*	*35*	*22nd*	*51·3*	*42·4*	*46·9*	—	*34*	*0*	4	21					*4*	*0·87*	—	*2·2*	—	*26*	—	*Hampstead.*
a Camden Square ..	*60*	*17th*	*37*	*22nd*	*54·3*	*44·3*	*49·3*	—	*51*	*0*	0	34					*4*	*0·75*	—	*2·0*	—	*24*	—	*Camden Square.*
6. *a* SCOTLAND, W.																								
a Poltalloch	53	16th	36	22nd	49·0	40·7	44·9	+ 2·1	26	4							7	2·83	+ 1·56					
p Glasgow	55	17th	36	22nd	50·0	40·4	45·2	+ 3·0	29	4	1	25					6	1·71	+ 0·85	0·4	- 0·3	5	- 4	Glasgow.
p Rothesay	55	17th	35	21, 22	50·4	40·3	45·4	+ 2·2	31	5	1	30	45·0		48·0	+2·3	7	1·82	+ 0·63	*1·2*	—	*16*		*Rothesay.*
a Kilmarnock	54	16, 17	31	22nd	50·7	40·3	45·5	+ 3·5	32	5							6	1·21	—	*0·6*	—	*8*	—	*Kilmarnock.*
a Colmonell	55	16, 17	37	22nd	51·9	42·0	47·0	+ 5·0	35	0	0	34					6	0·93	- 0·32					
p Dumfries	55	17th	30	22nd	51·1	39·1	45·1	+ 3·1	34	8	1	26	45·1		48·5		5	0·95	+ 0·05	*1·5*	—	*19*	—	*Dumfries.*
p Cally, Gatehouse	54	17th	30	22nd	49·9	41·1	45·5	+ 3·6	28	3							5	1·18	- 0·09					
b I. OF MAN																								
p Douglas	55	17th	37	22nd	52·4	43·4	47·9	+ 3·2	41	0	1	30					5	1·07	- 0·03	1·9	0·0	24	0	Douglas.
											1	25	45·7	+6·1	48·8	+2·7	—	—	—	*0·3*	—	*4*	—	*Burnley.*
											0	36					—	—	—	2·1	—	26	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	54	17th	36	22nd	50·9	40·7	45·8	+ 4·0	32	4	1	29	46·2		49·0		5	1·64	+ 0·66	0·9	—	11	—	Aspatria.
p Newton Rigg ..	56	18th	28	22nd	51·6	38·7	45·2	+ 4·9	36	9	2	22	45·4	+3·9	47·7	+1·8	7	0·98	+ 0·12	1·1	- 0·4	14	- 6	Newton Rigg.
p Stonyhurst	54	17th	37	22nd	51·0	42·0	46·5	+ 4·5	32	0	1	26					6	2·76	+ 1·72	0·9	- 0·4	11	- 5	Stonyhurst.
p Blackpool	56	17th	36	22nd	52·9	44·3	48·6	+ 5·3	46	0	1	29	48·3		50·7		6	1·66	+ 0·85	1·3	- 0·1	16	- 1	Blackpool.
p Manchester (Whit. Pk.)	57	17th	34	22nd	52·4	43·9	48·2	+ 4·8	43	0							6	0·99	+ 0·39	*0·4*	- *0·1*	*5*	- *1*	*Whit. Park.*
a Liverpool (Bidston) ..	58	16, 17	43	22nd	54·1	46·3	50·2	+ 7·5	57	0							6	0·50	- 0·09	*1·8*	—	*22*	—	*Liverpool.*
a Hawarden Bridge ..	59	18, 20	40	22nd	55·6	46·4	51·0	+ 6·6	63	0	1	27	46·6	+6·6	48·3	+2·6	5	0·30	- 0·23	*1·3*	- *0·1*	*16*	- *1*	*Southport.*
											1	28	47·2	+6·4	51·9	+3·6	—	—	—	*0·1*	—	*1*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	57	17th	39	22nd	54·0	44·0	49·0	+ 3·4	49	0							6	1·34	+ 0·64	1·5	- 0·2	19	- 2	Llandudno.
a Holyhead	56	17th	45	19, 22	53·7	47·4	50·6	+ 4·5	60	0							5	1·24	+ 0·26	*1·8*	—	*22*	—	*Holyhead.*
p Bettws-y-Coed ..																	—	—	—					Bettws-y-Coed.
																	—	—	—	1·1	—	13	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	54	18th	30	22nd	51·6	43·1	47·4	+ 5·9	38	0	1	26	47·4	+4·3	50·1	+1·2	7	2·26	—	0·9	—	11	—	Aberystwyth.
a Pembroke	56	17, 18	43	22nd	54·4	48·9	51·7	+ 4·4	68	0	•	•	•	•	•	•	5	0·84	− 0·06	1·3	—	16	—	Llangammarch
p Cardiff	56	17th	37	22nd	52·9	43·4	48·2	+ 4·8	43	0	2	29	48·3	+6·2	51·3	+3·0	6	1·07	+ 0·11	*1·3*	—	*16*	—	Pembroke.[Wells *Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	56	16-18	37	22nd	53·4	45·9	49·7	+ 5·6	54	0	0	31	•	•	•	•	5	0·59	− 0·16	*1·1*	—	*13*	—	*Clifton.*
a Shaftesbury	53	17, 18	35	22nd	50·4	42·0	46·2	+ 3·4	29	0	•	•	47·7	•	51·7	•	4	0·87	+ 0·06	•	•	•	•	Shaftesbury.
a Arlington	53	16-18	37	22nd	51·4	45·1	48·3	+ 4·6	44	0	•	•	•	•	•	•	6	2·08	+ 0·73	•	•	•	•	Arlington.
a Newquay	*56*	*17th*	*46*	*22nd*	*53·7*	*49·3*	*51·5*	+ *3·8*	*67*	*0*	•	•	50·8	•	•	•	*5*	*0·95*	+ *0·15*	1·4	− 1·0	16	−11	Newquay.
a Cullompton	57	18th	32	19th	54·1	41·7	47·9	+ 3·9	43	1	2	26	49·1	•	•	•	5	0·69	− 0·16	1·2	− 0·5	14	− 6	Cullompton.
a Portland	56	16-18, 21	45	22nd	54·4	49·0	51·7	+ 4·9	68	0	•	•	•	•	•	•	3	0·67	—	*1·8*	—	*21*	—	*Weymouth.*
p Plymouth	57	17th	36	19, 22	53·9	44·6	49·3	+ 2·8	51	0	2	29	50·0	+4·4	•	•	5	0·69	− 0·19	1·6	− 0·4	19	− 5	Plymouth.
a Falmouth	57	17th	41	20, 22	54·0	45·7	49·9	+ 2·3	55	0	0	32	•	•	•	•	5	1·03	− 0·13	1·7	− 0·6	20	− 7	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	52	16th	39	16th	49·3	42·1	45·7	+ 1·2	26	0	•	•	•	•	•	•	6	0·95	+ 0·20	•	•	•	•	
a Blacksod Point ..	56	16th	37	22nd	51·6	43·1	47·4	+ 1·4	38	0	•	•	•	•	•	•	7	1·13	− 0·13	•	•	•	•	
p Markree Castle ..	55	16, 17, 20	28	22nd	51·4	38·6	45·0	+ 2·1	35	10	1	23	47·3	•	50·6	•	7	0·90	− 0·10	1·5	− 0·1	19	− 2	Markree Castle.
a Birr Castle	55	16th	30	22nd	52·0	41·1	46·6	+ 3·6	36	3	•	•	•	•	•	•	5	0·63	− 0·12	*2·1*	+ *0·1*	*26*	+ *2*	*Birr Castle.*
b, East .. *p* Armagh	56	17th	34	22nd	50·7	38·9	44·8	+ 2·0	33	9	1	30	46·6	+4·2	49·6	+1·9	6	0·52	− 0·18	2·2	+ 0·5	28	+ 6	Armagh.
a Donaghadee	55	17th	35	22nd	52·0	40·6	46·3	+ 2·0	36	4	•	•	•	•	•	•	4	0·28	− 0·46	•	•	•	•	
											1	28	47·3‡	+3·5	49·8	+1·7	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											1	28	•	•	•	•	—	—	—	2·2	0·0	27	0	Phœnix Park.
p Dublin, City	57	17th	35	22nd	53·4	41·9	47·7	+ 2·4	40	0	0	32	•	•	•	•	4	0·43	− 0·21	•	•	•	•	Dublin City.
a, East .. *a* Kilkenny	56	16, 17	27	22nd	53·0	41·4	47·2	+ 3·9	39	2	•	•	•	•	•	•	6	0·92	+ 0·16	•	•	•	•	
a Waterford	57	17th	30	22nd	53·0	42·7	47·9	+ 3·2	41	0	•	•	•	•	•	•	3	0·79	− 0·14	•	•	•	•	
a Carrick-on-Suir ..	*57*	*17, 18*	*35*	*22nd*	*53·4*	*41·1*	*47·3*	—	*41*	*3*	1	28	•	•	•	•	*5*	*0·72*	—	*2·8*	—	*34*	—	*Carrick-on-Suir.*
a Birr Castle	55	16th	30	22nd	52·0	41·1	46·6	+ 3·6	36	3	•	•	•	•	•	•	5	0·63	− 0·12	2·1	+ 0·1	26	+ 2	Birr Castle.
a Foynes	55	17, 18	39	22nd	51·4	43·4	47·4	+ 2·4	38	0	•	•	•	•	•	•	7	1·01	+ 0·04	•	•	•	•	
b, West .. *a* Cahir	55	17, 20	30	22nd	52·0	41·0	46·5	+ 1·9	36	3	•	•	•	•	•	•	7	1·14	—	•	•	•	•	
a Killarney	60	16th	34	22nd	54·0	44·1	49·1	+ 3·8	50	0	•	•	•	•	•	•	7	0·85	− 0·58	•	•	•	•	
a Valencia	55	16, 17	37	22nd	53·1	45·4	49·3	+ 1·9	51	0	•	•	•	•	•	•	7	1·14	− 0·23	1·0	− 1·0	12	−13	Valencia.
a Roche's Point	57	17th	37	22nd	53·6	44·7	49·2	+ 2·5	59	0	•	•	•	•	•	•	7	1·02	− 0·06	1·9	—	23	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	56	16, 17	43	16th	54·4	47·6	51·0	+ 1·4	63	0	•	•	•	•	•	•	5	0·41	− 0·42	1·9	− 0·5	22	− 5	Scilly.
a Jersey, St. Aubins ..	58	17, 18	42	20th	56·4	48·0	52·2	+ 4·1	71	0	•	•	•	•	•	•	4	0·82	− 0·11	2·0	− 0·4	23	− 5	St. Heliers.
a Guernsey (Villa Carey)	57	17th	44	19, 22	54·9	48·0	51·5	+ 3·0	67	0	0	34	51·2	+3·5	54·1	+2·1	4	0·87	− 0·18	2·3	+ 0·4	26	+ 4	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·4 hrs. 25 °/₀; Ramsgate, 2·2 hrs. 26 °/₀; Rhyl, 2·3 hrs. 28 °/₀; Salcombe, 1·6 hrs. 19 °/₀; Tenby, 1·6 hrs. (−0·4) 19 °/₀ (−4); Torquay, 1·8 hrs. (−0·2) 21 °/₀ (−3).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, November 22nd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	50	48	48·6	+2·5	SCOTLAND, W. ..	Lamlash	49	48	49·0	+0·4
	Kirkwall	48	46	47·1	+3·9		Ballantrae	50	47	48·3	+3·0
	Wick	49	48	48·5	+0·2	ENGLAND, N.W. ..	Port Erin	53	51	52·0	+2·1
	Cromarty	46	44	45·3	+1·9		Newquay	54	53	53·5	+2·4
SCOTLAND, E. ..	Pennan Bay	48	45	46·8	+3·0	ENGLAND, S.W. ..	Scilly	54	53	53·5	—
	Aberdeen, Cove Bay	50	49	49·4	+4·2		Plymouth‡	54	53	53·8	+1·9
	Burnmouth, Berwick	49	47	48·2	+3·5		Salcombe	55	50	53·7	+2·6
ENGLAND, N.E. ..	Scarborough	48	45	46·6	+0·7	IRELAND, N.W. ..	Sheephaven	49	46	47·4	−0·6
ENGLAND, E. ..	Shipwash Lightship	53	51	52·1	+3·8		Teelin	52	49	50·5	+2·4
ENGLAND, S.E. ..	Eastbourne‡	54	52	52·7	+4·9	IRELAND, S.W. ..	Cleggan	50	49	50·0	+3·6
							Seafield	52	49	51·6	+3·0

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-SEVENTH WEEK—November 16th to November 22nd, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	56	32	48·5	37·4	43·0	+ 1·9	26	+ 11	13	− 8	7	+ 2	2·97	+1·69	1·1	+0·1	14	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	60	25	48·9	37·2	43·1	+ 2·8	28	+ 14	13	−14	4	− 1	0·57	−0·07	2·1	+0·6	27	+ 8
2. ENGLAND, N.E.	58	29	52·7	41·5	47·2	+ 5·2	39	+ 21	1	−16	4	0	0·40	−0·13	2·3	+0·5	28	+ 7
3. ENGLAND, EAST ...	60	29	53·2	43·3	48·3	+ 6·5	44	+ 24	0	−20	3	− 1	0·41	−0·06	2·3	+0·6	28	+ 7
4. MIDLAND COUNTIES ...	60	31	53·4	42·7	48·1	+ 6·7	43	+ 25	0	−23	4	0	0·43	−0·07	1·3	−0·3	16	− 3
5. ENGLAND, S.E.	59	30	53·8	44·4	49·1	+ 5·5	50	+ 24	0	−14	4	0	0·76	+0·17	2·0	+0·2	24	+ 3
Western.																		
6. SCOTLAND, WEST ...	55	30	50·7	40·9	45·8	+ 3·1	31	+ 11	3	−12	6	+ 1	1·46	+0·27	1·2	−0·3	15	− 4
7. ENGLAND, N.W.	59	28	52·9	43·7	48·3	+ 5·3	44	+ 23	0	−13	6	+ 2	1·27	+0·48	1·3	−0·2	16	− 3
8. ENGLAND, S.W.	57	30	53·1	44·9	49·0	+ 4·4	49	+ 20	0	−11	5	0	1·08	+0·20	1·3	−0·6	16	− 7
9. IRELAND, NORTH ...	56	28	51·2	40·7	46·0	+ 2·9	33	+ 12	4	−10	6	+ 1	0·74	−0·16	1·9	+0·1	23	+ 2
10. IRELAND, SOUTH ...	60	27	52·8	42·9	47·9	+ 2·6	41	+ 12	0	−12	6	+ 2	0·88	−0·03	1·8	−0·2	22	− 3
11. ENGLISH CHANNEL ...	58	42	55·2	47·9	51·6	+ 3·3	67	+ 21	0	− 1	4	− 1	0·70	−0·09	2·1	−0·1	24	− 1

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 12 Weeks, August 31st to November 22nd, 1913.

0. SCOTLAND, NORTH ...	71	28	*	*	*	*	634	+122	35	−57	54	− 6	12·90	−1·29	2·5	+0·1	24	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	74	22	*	*	*	*	650	+108	54	−67	46	− 4	6·32	−1·55	2·6	−0·3	25	− 2
2. ENGLAND, N.E.	79	28	*	*	*	*	843	+201	15	−49	47	+ 2	6·38	−0·42	3·2	0·0	30	0
3. ENGLAND, EAST ...	76	29	*	*	*	*	979	+246	5	−70	47	+ 3	7·29	+0·92	3·7	+0·1	34	+ 1
4. MIDLAND COUNTIES ...	79	24	*	*	*	*	884	+215	20	−72	47	+ 4	8·05	+1·22	2·9	−0·2	27	− 2
5. ENGLAND, S.E.	76	28	*	*	*	*	1050	+223	0	−49	45	+ 2	10·13	+2·28	3·7	+0·1	35	+ 1
Western.																		
6. SCOTLAND, WEST ...	73	25	*	*	*	*	744	+130	16	−49	50	− 1	10·87	−2·39	2·5	−0·4	24	− 4
7. ENGLAND, N.W.	79	25	*	*	*	*	888	+198	5	−42	48	0	8·91	−0·79	3·1	+0·1	29	+ 1
8. ENGLAND, S.W.	78	28	*	*	*	*	999	+203	0	−37	51	+ 1	12·18	+1·25	3·2	−0·3	30	− 2
9. IRELAND, NORTH ...	71	24	*	*	*	*	815	+171	22	−33	56	+ 1	10·51	+0·37	2·9	0·0	27	0
10. IRELAND, SOUTH ...	73	24	*	*	*	*	906	+157	21	−26	60	+11	13·48	+3·50	3·1	−0·3	29	− 3
11. ENGLISH CHANNEL ...	77	41	*	*	*	*	1232	+195	0	− 2	50	− 4	9·89	+0·31	4·4	+0·2	41	+ 2

THE YEAR.—Aggregates, &c., for the Period of 47 Weeks, December 29th, 1912, to November 22nd, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	2,165	+ 99	459	−130	203	−17	41·61	−3·99	3·0	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	2,321	+ 9	655	− 86	175	− 8	23·70	−3·74	3·5	−0·4	28	− 3
2. ENGLAND, N.E.	82	18	*	*	*	*	2,773	+181	421	−118	165	0	20·70	−1·56	3·7	−0·6	29	− 5
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,215	+222	308	−288	160	0	20·30	−0·98	4·1	−0·6	33	− 4
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	3,062	+157	412	−213	162	+ 4	24·98	+1·39	3·5	−0·6	27	− 6
5. ENGLAND, S.E.	84	22	*	*	*	*	3,395	+149	221	−209	154	+ 1	25·36	+1·40	4·3	−0·4	34	− 4
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,601	+ 84	339	−151	188	− 3	37·67	−4·44	3·6	−0·4	28	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,899	+142	303	−130	181	+ 5	31·22	+0·31	3·9	−0·2	31	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	3,246	+158	221	−117	181	+ 6	35·98	+2·40	4·1	−0·5	33	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,685	+ 54	319	− 81	208	+ 1	34·70	+0·70	3·5	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	3,094	+ 59	264	− 42	212	+28	41·01	+5·85	3·9	−0·3	31	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,767	+144	38	− 73	178	− 9	28·16	−0·10	4·8	−0·8	38	− 6

M.O., November 26, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

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ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 48. FORTY-EIGHTH WEEK, SUNDAY, NOVEMBER 23RD, TO SATURDAY, NOVEMBER 29TH, 1913.

Price 6*d.*
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I.—General Remarks.

Weather. Although the general condition remained unsettled rain was not frequent except in the most western and north-western districts, and the quantity was, as a rule, light or moderate. Much fog and mist prevailed on the extreme south-west coast, and in Ireland and some parts of Great Britain the sky was generally overcast. Thunder was heard at Strathpeffer, on the 25th, and at Lerwick on the 26th.

Temperature continued above the average, the excess being about 5° in several districts, more than 6° in Scotland N., and 7° in Scotland E. The highest of the maxima occurred at most stations during the latter half of the week, and ranged from 64° in England N.W. (at Bettyw-y-Coed on the 29th) to 56° in Scotland N., and the English Channel. The minima were rather low during the early part of the week, but subsequently high for the time of year. The lowest values ranged from 22° in the Midland Counties (at Raunds on the 23rd), 24° in England S.E., and 25° in England E., to 35° in Scotland N., and to 38° in the English Channel. The lowest grass minima were 19° at Worksop, Greenwich and Hampstead, 20° at Wisley, 21° at Oxford and Cullompton, and 22° at Birmingham and Hereford. The temperature of the earth continued above the normal both at a depth of 1 foot and 4 feet.

Mean Temperature of the Sea was again above the average very generally, and also above the mean for the corresponding week of last year. The means for the week ranged from about 53°·5 at Scilly and Plymouth, and about 51°·5 at Eastbourne and Port Erin, to 46°·2 at Cromarty, and to 44°·2 at Scarborough.

Rainfall exceeded the average in Scotland N. and just equalled it in Ireland N., but in all other districts it was below it. The fall in eastern, central, and south-eastern England was very slight. At Wisley, Clacton-on-Sea and Southend-on-Sea, and at some of the Metropolitan stations, the week was rainless. At Markree Castle on the 23rd there was as much as 1·1 in., and at Blacksod 1·6 in.; at Glencarron on the 28th as much as 2·3 in.

Bright Sunshine was above the normal in nearly all the English districts, and in Scotland E., but below it in Ireland, England S.W. and the north and west of Scotland. In England E. the percentage of the possible duration was 36, and the daily mean 2·9 hours, but in Ireland the percentage was as low as 7, and the daily mean about 0·5 hour, while in Scotland N. the corresponding values were 4 and 0·3 hour.

Barometer and Wind. The pressure distribution was cyclonic throughout. Early in the week the centre of the disturbance lay to north-westward of the United Kingdom, with the barometer highest to the eastward or south-eastward, while late in the week the lowest pressure was to the northward, and the highest to the southward or south-westward of these Islands. With these varying conditions the wind was at first Southerly and South-Westerly, but afterwards veered to the Westward. Gales or strong winds were frequently experienced in the north and north-west, but in the south and east the wind was generally light or moderate to fresh in force.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 191.	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Very unusual	Very unusual	Unusual	Very unusual	Very unusual	Unusual	Very unusual	Very unusual	Unusual	Unusual	Unusual	Unusual
Rainfall ...	Heavy	Light	Light	Very light	Light	Very light	Light	Light	Light	Moderate	Moderate	Light
Sunshine ...	Scanty	Moderate	Abundant	Abundant	Moderate	Abundant	Moderate	Moderate	Scanty	Very scanty	Very scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 13 weeks from Aug. 31st, 1913. Warmth ...	6 * 0	8 * 0	8 * 0	10 * 0	11 * 0	11 * 0	6 * 0	9 * 0	9 * 0	8 * 0	9 * 2	11 * 0
Rainfall ...	4 * 4	2 * 4	4 * 6	5 * 6	5 * 4	5 * 5	2 * 4	4 * 6	3 * 5	3 * 2	7 * 1	4 * 3
Sunshine ...	5 * 4	5 * 6	6 * 3	4 * 1	4 * 3	5 * 2	1 * 4	6 * 3	4 * 6	2 * 5	2 * 6	2 * 4

PAST SEASONS.

AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks. Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6
WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks. Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks. Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks. Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9

(32807—24.) Wt. 196—786. 450. 12/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
1. SCOTLAND, E.																							
p Gordon Castle.. S	58	27th	34	23rd	54·0	40·6	47·3	+ 6·4	43	4	1	26	42·4	+3·4	45·2	+2·1	—	—	—	1·1	—	16	—	Crathes S.
a Nairn .. .. S	56	29th	35	23rd	52·3	41·1	46·7	+ 6·7	37	3	•	•	•	•	•	•	3	0·67	+ 0·12	*0·9*	—	*13*	—	*Gordon Castle*
a Aberdeen ..	59	27th	36	25th	52·9	41·6	47·3	+ 6·3	39	1	•	•	•	•	•	•	4	0·54	+ 0·07	1·1	—	16	—	Nairn.
a Balmoral ..	56	28th	33	26th	51·7	38·7	45·2	+ 8·0	36	9	2	30	•	•	45·8	+2·0	2	0·02	- 0·65	0·9	- 0·7	13	- 9	Aberdeen.
p Crieff	56	27th	36	25th	50·3	42·0	46·2	+ 6·1	29	0	•	•	•	•	•	•	3	0·44	- 0·38	•	•	•	•	Balmoral.
a Leith	55	25, 27, 29	37	23rd	52·0	43·4	47·7	+ 5·6	40	0	•	•	•	•	•	•	4	0·49	- 0·53	1·3	—	18	—	Balruddery.
p West Linton .. S	56	27th	32	23rd	49·9	38·6	44·3	+ 5·3	30	10	•	•	•	•	•	•	2	0·12	- 0·33	•	•	•	•	
p Marchmont .. S	54	27, 28	34	25th	50·6	40·1	45·4	+ 5·8	32	5	2	29	41·6	+3·7	•	•	4	0·29	—	*0·8*	—	*11*	—	*West Linton*
																	3	0·17	- 0·48	1·9	+ 0·5	26	+ 7	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	57	27th	33	23rd	51·1	40·7	45·9	+ 4·7	33	4	1	27	41·9	+4·1	45·1	+2·7	3	0·13	- 0·58	2·5	—	34	—	Cockle Park.
a Shields	56	27, 29	35	24th	51·4	40·3	45·9	+ 3·8	34	5	•	•	•	•	•	•	4	0·40	- 0·06	•	•	•	•	
p Durham	57	27th	33	23rd	51·3	41·7	46·5	+ 6·4	33	1	2	29	•	•	•	•	3	0·24	- 0·25	1·9	+ 0·4	25	+ 5	Durham.
a, North .. *p* Rounton	54	27, 29	34	23rd	50·7	40·1	45·4	+ 5·0	32	5	2	28	43·1	•	•	•	5	0·33	- 0·09	•	•	•	•	Rounton.
a *West Witton* ..	*53*	*27th*	*35*	*23rd*	*48·7*	*41·4*	*45·1*	—	*24*	*2*	1	29	43·3	•	46·0	•	*4*	*0·12*	—	3·1	—	40	—	*West Witton.*
p Scarborough ..	58	29th	35	23, 24	50·3	41·1	45·7	+ 3·3	30	3	•	•	•	•	49·0†	•	7	0·23	- 0·31	0·9	- 0·1	12	- 2	Scarborough.
p York	56	29th	31	23rd	51·3	42·0	46·7	+ 5·2	33	0	•	•	44·8	+2·9	48·6	+2·1	6	0·23	- 0·22	0·9	- 0·1	12	- 2	York.
											2	28	43·3	+2·9	49·0	+2·0	—	—	—	*1·3*	—	*17*	—	*Hull.*
a Spurn Head ..	53	29th	37	23, 24	49·4	40·9	45·2	+ 2·3	27	3	•	•	•	•	•	•	3	0·09	- 0·32	*2·4*	—	*31*	—	*Spurn Head.*
b, South .. *a* Lincoln	55	29th	31	23rd	50·6	38·0	44·3	+ 3·3	33	11	•	•	43·0	+3·0	48·7	+2·5	2	0·07	- 0·35	•	•	•	•	Lincoln.
a Fulbeck	54	29th	32	23rd	50·0	38·1	44·1	+ 3·9	31	11	5	24	44·2	+3·2	49·5	+2·2	4	0·09	- 0·34	1·9	—	24	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·7	—	34	—	Skegness.
3. ENGLAND, E.											1	26	44·7	+2·2	49·9	+2·8	—	—	—	*3·4*	—	*43*	—	*Lowestoft.*
p Cromer	55	29th	35	23rd	51·9	40·9	42·4	+ 5·8	35	3	•	•	•	•	•	•	3	0·04	—	3·7	—	47	—	Cromer.
p Little Massingham ..	53	29th	33	23rd	49·7	39·0	44·4	+ 3·9	29	8	3	23	•	•	•	•	4	0·05	- 0·50	2·5	—	31	—	Lit. Massingham
a, North .. *a* Yarmouth	55	28th	33	23rd	51·7	39·6	45·7	+ 3·6	36	7	•	•	45·0	+3·9	50·1	+3·2	1	0·01	- 0·49	3·5	—	44	—	Yarmouth.
a Norwich	54	28, 29	27	23rd	51·3	37·4	44·4	+ 2·9	36	13	3	23	43·3	•	•	•	4	0·05	—	*3·3*	—	*41*	—	*Norwich.*
p Gelderston	57	28th	26	23rd	53·1	38·3	45·7	+ 3·5	41	10	•	•	•	•	•	•	3	0·03	- 0·47	3·2	+ 1·4	40	+18	Gelderston.
p Cambridge	57	28th	26	23rd	52·3	35·9	44·1	+ 2·7	40	17	3	24	44·3	+2·8	49·7	+2·6	1	0·01	- 0·39	2·2	+ 0·6	28	+ 7	Cambridge.
a *Felixstowe* ..	*56*	*28th*	*36*	*23rd*	*52·6*	*40·7*	*46·7*	+ *3·9*	*38*	*4*	•	•	•	•	•	•	*1*	*0·02*	—	*3·9*	—	*49*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	56	28th	38	23rd	52·1	40·4	46·3	+ 3·7	37	4	0	32	44·4	- 0·6	51·5	+3·1	0	0·00	—	3·3	—	41	—	Clacton.
a Rothamsted	57	28th	26	23rd	52·1	34·1	43·1	+ 1·9	41	22	•	•	•	•	•	•	2	0·02	- 0·58	2·7	+ 1·1	33	+13	Rothamsted.
a *Shoeburyness* ..	*59*	*28, 29*	*32*	*23rd*	*53·3*	*39·9*	*46·6*	+ *3·5*	*41*	*6*	1	28	47·1	+4·2	•	•	*0*	*0·01*‖	- *0·38*	*2·2*	—	*37*	—	*Southend.*
p Tottenham	57	29th	30	23rd	53·1	42·4	47·8	+ 5·3	41	0	2	25	•	•	51·6	+3·4	0	0·00	—	1·7	—	21	—	Tottenham.
											1	23	43·2	+3·6	47·9	+2·7	—	—	—	*0·8*	—	*10*	—	*Huddersfield.*
4. MIDLAND COUNTIES.											2	25	44·1	+3·2	46·2	+1·8	4	0·18	- 0·42	0·8	—	10	—	Harrogate.
a Harrogate	52	27, 29	31	23rd	48·4	39·1	43·8	+ 3·4	25	8	3	19	43·8	•	47·5	•	2	0·07	- 0·37	2·0	+ 0·7	25	+ 9	Worksop.
a Bawtry	57	29th	30	23rd	51·1	38·6	44·9	+ 4·3	35	10	*3*	*19*	*10*	*2*	27	43·7	+4·3	48·4	+2·5	*6*	*0·31*	- *0·79*	*1·6*	—	*20*	—	*Buxton.*
p *Buxton*	*52*	*27th*	*29*	*23rd*	*46·6*	*38·4*	*42·5*	+ *3·5*	*19*	*10*	2	23	43·3	+3·7	47·5	+2·7	4	0·05	- 0·40	1·7	—	22	—	Nottingham.
a, East .. *a* Nottingham	55	29th	26	23rd	51·6	36·9	44·3	+ 3·1	38	14	1	22	45·1	+3·2	49·3	+1·9	1	0·03	- 0·51	2·6	—	33	—	Birmingham.
p Birmingham, Edgbsn.	57	27th	31	23rd	50·7	39·4	45·1	+ 4·1	33	7	3	24	45·5	•	•	•	1	0·02	—	•	•	•	•	Raunds.
a Raunds	57	28, 29	22	23rd	51·6	33·7	42·7	+ 1·8	40	23	2	21	•	•	51·2	•	1	0·01	- 0·51	1·6	0·0	20	0	Oxford.
p Oxford	55	26th	25	23rd	51·7	38·7	45·2	+ 3·5	36	9	1	24	44·7	+4·0	48·4	+2·0	—	—	—	2·0	—	25	—	Sheffield.
a Cheadle	53	29th	29	23rd	48·6	36·7	42·7	+ 2·5	27	15	3	27	•	•	•	•	3	0·08	- 0·57	•	•	•	•	Cheadle.
p Shrewsbury ..	59	29th	32	23rd	53·1	40·6	46·9	+ 4·2	40	4	1	30	•	•	•	•	2	0·14	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	59	29th	29	23rd	53·3	36·1	44·7	+ 3·1	44	17	4	22	•	•	•	•	2	0·09	- 0·46	•	•	•	•	Hereford.
a Cirencester ..	58	28th	25	23rd	51·3	33·7	42·5	+ 2·1	38	23	3	28	45·6	•	49·5	•	1	0·03	- 0·61	2·0	+ 0·4	25	+ 5	Cirencester.
a Bath	56	26, 28, 29	26	23rd	53·7	36·4	45·1	+ 2·6	45	16	•	•	46·2	+2·2	51·1	+2·1	2	0·06	- 0·63	1·4	—	17	—	Bath.
5. ENGLAND, S.E.											1	25	46·6	+3·7	51·5	+5·0	—	—	—	•	•	•	•	Canterbury.
p Kew	55	28th	30	23rd	51·3	39·3	45·3	+ 2·9	34	8	4	24	45·4	+3·5	50·3	+2·6	0	0·01‖	- 0·48	2·1	+ 0·7	26	+ 9	Kew.
a Marlborough ..	55	26th	24	23rd	51·0	33·7	42·4	+ 1·6	38	23	5	19	•	•	50·6	•	1	0·03	- 0·67	1·0	- 0·3	12	- 4	Marlborough.
a Margate	58	29th	39	25th	53·0	42·3	47·7	+ 4·2	40	0	0	32	49·3	+5·2	51·9	+4·9	2	0·02	- 0·48	2·0	+ 0·3	25	+ 4	Margate.
a Wisley, Surrey ..	57	28th	26	23rd	52·1	35·6	43·9	+ 1·0	40	18	5	20	45·2	+3·1	49·7	+2·6	0	0·00	—	2·4	—	30	—	Wisley.
											0	31	47·5	+4·4	52·4	+3·7	—	—	—	2·1	—	26	—	Worthing.
p Salisbury (Wilton) ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	56	29th	36	27, 28	52·7	39·9	46·3	+ 2·0	39	6	•	•	•	•	•	•	1	0·07	- 0·48	2·7	—	33	—	Littlestone.
p Hastings.. ..	57	28th	39	23, 27	52·9	42·6	47·8	+ 3·8	41	0	0	31	47·3	•	51·7	•	2	0·05	- 0·64	*2·6*	+ *0·4*	*30*	+ *5*	*Hastings.*
p Southampton ..	57	29th	29	23rd	53·7	40·6	47·2	+ 3·5	42	4	2	26	•	•	•	•	2	0·04	- 0·66	2·1	+ 0·3	26	+ 4	Southampton.
a Ventnor	56	28, 29	41	23rd	54·1	45·1	49·6	+ 3·2	53	0	•	•	•	•	•	•	5	0·19	- 0·55	3·0	+ 1·1	36	+14	Ventnor.
											2	23	48·3	+3·5	52·4	+3·1	—	—	—	*1·7*	—	*21*	—	*Portsmouth.*
											•	•	49·3	•	53·1	•	—	—	—	2·4	+ 0·5	29	+ 6	Eastbourne.
											•	•	46·7	•	50·0	•	—	—	—	*2·6*	—	*31*	—	*Bournemouth.*
LONDON.											0	32	•	•	52·0	•	—	—	—	*1·8*	- *0·1*	*22*	- *1*	*Brighton.*
a *Westminster* ..	*58*	*28th*	*34*	*23rd*	*53·3*	*38·9*	*46·1*	+ *3·5*	*42*	*9*	0	31	•	•	•	•	*0*	*0·00*	- *0·50*	*1·3*	+ *0·7*	*16*	+ *9*	*Westminster.*
a *Greenwich* ..	*57*	*29th*	*28*	*23rd*	*52·9*	*37·4*	*45·2*	+ *2·6*	*42*	*13*	4	19	•	•	•	•	*1*	*0·02*	- *0·48*	*2·0*	+ *0·7*	*25*	+ *9*	*Greenwich.*
a *Hampstead* ..	*56*	*28th*	*33*	*23rd*	*50·9*	*37·6*	*44·3*	—	*35*	*12*	5	19	•	•	•	•	*1*	*0·01*	—	*2·0*	—	*25*	—	*Hampstead.*
a *Camden Square* ..	*57*	*28th*	*30*	*23rd*	*52·6*	*37·4*	*45·0*	—	*40*	*13*	1	28	•	•	•	•	*0*	*0·00*	—	*1·2*	—	*15*	—	*Camden Square.*
6. *a* SCOTLAND, W.																								
a Poltalloch .. S	52	29th	42	25–27	50·0	44·6	47·3	+ 5·2	37	0	•	•	•	•	•	•	7	2·16	+ 0·90	•	•	•	•	
p Glasgow .. .. S	54	27th	41	24, 25	51·3	44·4	47·9	+ 6·2	41	0	0	36	•	•	•	•	5	0·55	- 0·32	0·4	- 0·2	6	- 2	Glasgow.
p Rothesay .. S	54	25th	42	24, 25	51·3	45·0	48·2	+ 5·6	43	0	1	30	45·1	•	47·5	+2·6	7	1·18	+ 0·01	*0·3*	—	*4*	•	*Rothesay.*
a Kilmarnock ..	53	25, 29	33	23rd	50·7	42·3	46·5	+ 4·8	32	0	•	•	•	•	•	•	7	0·80	—	*0·4*	—	*5*	—	*Kilmarnock.*
a Colmonell ..	55	27th	34	23rd	51·9	42·6	47·3	+ 5·4	37	0	0	32	•	•	•	•	6	0·89	- 0·43	•	•	•	•	
p Dumfries	56	27th	39	25th	52·0	44·0	48·0	+ 6·6	42	0	0	31	44·3	•	47·4	•	5	0·28	- 0·62	*0·5*	—	*7*	—	*Dumfries.*
p Cally, Gatehouse S	53	28, 29	35	25th	50·0	43·0	46·5	+ 5·2	32	0	•	•	•	•	•	•	5	0·30	- 0·94	•	•	•	•	
b I. OF MAN.																								
p Douglas	57	27th	41	24th	53·1	45·1	49·1	+ 5·0	50	0	0	34	•	•	•	•	5	0·19	- 0·91	1·3	- 0·4	17	- 5	Douglas.
											2	26	43·8	+4·4	48·1	+3·2	—	—	—	*0·7*	—	*9*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											2	29	•	•	•	•	—	—	—	1·8	—	23	•	Hoylake.
p Aspatria	53	27th	39	23, 25	49·7	43·3	46·5	+ 5·3	32	0	0	32	45·3	•	48·5	•	6	0·37	- 0·59	1·3	—	17	—	Aspatria.
p Newton Rigg	54	27th	35	25th	50·4	42·1	46·3	+ 6·5	30	0	2	25	44·3	+3·8	47·0	+2·4	5	0·19	- 0·67	1·7	+ 0·3	22	+ 4	Newton Rigg.
p Stonyhurst	53	28th	34	23rd	49·7	41·6	45·7	+ 4·2	28	1	1	26	•	•	•	•	7	0·75	- 0·28	0·6	- 0·6	8	- 7	Stonyhurst.
p Blackpool											•	•	•	•	•	•	—	—	—	•	•	•	•	Blackpool.
p Manchester (Whit. Pk.)	57	29th	36	23rd	51·3	42·3	47·1	+ 4·6	36	0	•	•	•	•	•	•	6	0·31	- 0·29	*1·6*	+ *1·2*	*21*	+*15*	*Whit. Park.*
a Liverpool (Bidston) ..	57	27th	35	23, 24	51·1	41·3	46·2	+ 3·9	32	2	•	•	•	•	•	•	5	0·25	- 0·32	*2·2*	—	*28*	—	*Liverpool.*
a Hawarden Bridge ..	63	27th	34	23rd	54·3	41·4	47·9	+ 4·1	44	2	1	28	44·0	+4·5	47·4	+3·0	6	0·17	- 0·35	*1·6*	+ *0·4*	*21*	+ *5*	*Southport.*
											1	30	45·1	+4·8	50·8	+3·9	—	—	—	*0·6*	—	*8*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	58	27th	37	23rd	53·4	43·9	48·7	+ 3·8	47	0	•	•	•	•	•	•	4	0·18	- 0·49	2·2	+ 0·7	28	+ 9	Llandudno.
a Holyhead	56	27th	43	24, 25	52·4	46·6	49·5	+ 4·0	53	0	•	•	•	•	•	•	3	0·11	- 0·84	*0·5*	—	*6*	—	*Holyhead.*
p Betws-y-Coed ..	64	29th	35	23, 24	55·3	43·1	49·2	+ 4·6	50	0	1	30	45·7	+3·9	49·0	+2·5	2	0·42	—	1·5	—	19	—	Betws-y-Coed.
											•	•	•	•	•	•	—	—	—	1·0	—	13	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway. ‖ Dew

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	54	27th	28	23rd	50·6	37·7	44·2	+ 3·4	33	12	3	24	45·2	+2·5	49·7	+1·9	5	0·64	—	1·2	—	15	—	Aberystwyth.
a Pembroke	55	25, 26	45	23, 24, 29	53·6	47·3	50·5	+ 3·9	60	0	•	•	•	•	•	•	4	0·74	- 0·16	1·0	—	13	—	Llangammarch
p Cardiff	54	26th	34	23rd	51·3	39·0	45·2	+ 2·7	35	8	3	25	45·7	+3·6	50·4	+3·4	2	0·18	- 0·81	0·6	- 1·2	7	-15	Pembroke.[Wells
																				1·1	—	*14*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	55	26th	33	23rd	52·1	40·9	46·5	+ 3·0	36	3	1	29	•	•	•	•	3	0·11	- 0·66	*1·0*	—	*12*	—	*Clifton.*
a Shaftesbury	51	26, 27	35	23rd	49·6	40·0	44·8	+ 2·6	28	6	•	•	45·8	•	50·7	•	2	0·04	- 0·76	•	•	•	•	Shaftesbury.
a Arlington	53	26, 27	34	23rd	50·4	40·0	45·2	+ 2·0	31	6	•	•	•	•	•	•	7	1·02	- 0·33	•	•	•	•	Arlington.
a Newquay	*53*	*25-27*	*35*	*23rd*	*51·7*	*45·7*	*48·7*	*+ 1·6*	*47*	*0*	•	•	49·4	•	•	•	*7*	*0·38*	*- 0·43*	1·2	- 0·9	15	-11	Newquay.
a Cullompton	58	29th	26	23rd	53·1	36·3	44·7	+ 1·4	43	16	4	21	47·1	•	•	•	5	0·22	- 0·63	1·4	- 0·1	17	- 2	Cullompton.
a Portland	56	28th	41	23rd	54·6	46·0	50·3	+ 4·3	58	0	•	•	•	•	•	•	2	0·08	—	*2·3*	—	*28*	—	*Weymouth.*
p Plymouth	56	26th	36	23rd	53·6	41·9	47·8	+ 1·8	41	0	3	30	47·9	+2·4	•	•	4	0·10	- 0·80	1·4	- 0·5	17	- 6	Plymouth.
a Falmouth	56	27th	48	23rd	52·9	42·0	48·0	+ 0·9	42	0	2	28	•	•	•	•	4	0·42	- 0·78	1·5	- 0·6	18	- 7	Falmouth.
9. IRELAND, N.																								
a Malin Head	53	25, 27-29	38	25th	51·3	43·3	47·3	+ 3·2	37	0	•	•	•	•	•	•	7	0·61	- 0·14	•	•	•	•	• •
a, West .. *a* Blacksod Point ..	55	23, 26	41	24th	53·7	45·4	49·6	+ 4·2	53	0	•	•	•	•	•	•	6	2·35	+ 1·07	•	•	•	•	• •
p Markree Castle ..	57	27th	35	24th	53·1	41·0	47·1	+ 4·7	40	3	1	29	46·7	•	49·9	•	4	1·53	+ 0·53	0·5	- 1·0	7	-12	Markree Castle.
a Birr Castle	56	25th	30	23rd	52·1	39·6	45·9	+ 3·4	37	7	•	•	•	•	•	•	4	0·34	- 0·40	*0·1*	- *1·7*	*1*	*-22*	*Birr Castle.*
b, East .. *p* Armagh	55	27th	35	24th	52·1	41·3	46·7	+ 4·5	36	2	0	32	46·0	+4·3	48·8	+2·3	3	0·14	- 0·55	0·6	+ 0·9	8	-12	Armagh.
a Donaghadee	58	27th	35	23rd	52·4	42·1	47·3	+ 3·7	37	0	•	•	•	•	•	•	5	0·25	- 0·47	•	•	•	•	• •
											0	33	46·6	+3·7	49·1	+2·0	—	—	—	•	•	•	•	Trinity Coll.
											0	31	•	•	•	•	—	—	—	0·4	- 1·6	5	-20	Phœnix Park.
10. IRELAND, S.																								
p Dublin, City	55	27th	40	24th	53·4	44·6	49·0	+ 4·3	49	0	0	38	•	•	•	•	4	0·11	- 0·48	•	•	•	•	Dublin City.
a, East .. *a* Kilkenny	56	25th	31	23, 24	53·1	38·0	45·6	+ 2·7	42	11	•	•	•	•	•	•	5	0·28	- 0·47	•	•	•	•	• •
a Waterford ..	58	27th	31	23rd	53·7	40·1	46·9	+ 2·7	42	5	•	•	•	•	•	•	2	0·21	- 0·73	•	•	•	•	• •
a Carrick-on-Suir ..	*55*	*25, 27*	*35*	*24th*	*52·4*	*40·4*	*46·4*	—	*38*	*4*	1	27	•	•	•	•	*4*	*0·42*	—	*1·9*	—	*24*	—	*Carrick-on-Suir.*
a Birr Castle	56	25th	30	23rd	52·1	39·6	45·9	+ 3·4	37	7	•	•	•	•	•	•	4	0·34	- 0·40	*0·1*	- 1·7	1	-22	Birr Castle.
a Foynes	55	27th	37	23rd	52·7	42·1	47·4	+ 2·6	38	0	•	•	•	•	•	•	6	1·07	+ 0·08	•	•	•	•	• •
b, West .. *a* Cahir	59	28th	32	23, 24	54·1	37·4	45·8	+ 1·6	46	13	•	•	•	•	•	•	6	0·64	—	•	•	•	•	• •
a Killarney	59	25, 28	38	23, 24	55·7	43·0	49·4	+ 4·4	52	0	•	•	•	•	•	•	4	1·11	- 0·36	•	•	•	•	• •
a Valencia	54	24-27	37	23rd	53·3	45·1	49·2	+ 2·3	50	0	•	•	•	•	•	•	7	1·51	+ 0·13	0·3	- 1·5	4	-19	Valencia.
a Roche's Point	58	27th	37	23rd	53·3	43·3	48·3	+ 2·1	44	0	•	•	•	•	•	•	6	0·35	- 0·75	1·3	—	16	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	25-27	43	24, 25	52·9	46·0	49·5	+ 0·4	53	0	•	•	•	•	•	•	7	0·46	- 0·40	0·5	- 1·6	6	-20	Scilly.
a Jersey, St. Aubins ..	56	25, 26, 28	40	23rd	54·9	45·7	50·3	+ 2·9	58	0	•	•	•	•	•	•	4	0·13	- 0·79	0·4	- 1·9	5	-22	St. Heliers.
a Guernsey (Villa Carey)	55	26, 28	38	23rd	53·6	45·0	49·3	+ 1·6	51	0	1	29	49·8	+2·5	53·2	+2·0	5	0·27	- 0·75	1·1	- 0·6	13	- 7	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·1 hrs. 25 %; Ramsgate, 2·9 hrs. 36 %; Rhyl, 1·8 hrs. 23 %; Salcombe, 1·6 hrs. 19 %; Tenby, 0·8 hrs. (−0·7) 10 % (−12); Torquay, 3·4 hrs. (+1·5) 41 % (+18).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, November 29th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	48	48	48·0	+2·5	SCOTLAND, W. ..	Lamlash	50	48	49·2	+0·9
	Kirkwall	48	46	46·5	+3·6		Ballantrae	49	47	47·9	+3·1
	Wick	49	48	48·5	+1·1	ENGLAND, N.W. ..	Port Erin	52	51	51·5	+2·1
SCOTLAND, E. ..	Cromarty	47	45	46·2	+3·7	ENGLAND, S.W. ..	Newquay	53	52	52·5	+2·5
	Pennan Bay	48	44	45·8	+2·5		Scilly	54	53	53·5	—
	Aberdeen, Cove Bay	48	47	47·5	+2·8		Plymouth‡	54	53	53·4	+2·3
ENGLAND, N.E. ..	Burnmouth, Berwick	49	47	47·6	+3·8		Salcombe	54	50	52·8	+2·6
	Scarborough	47	42	44·2	-0·4	IRELAND, N.W. ..	Sheephaven	49	47	48·2	+1·1
ENGLAND, E. ..	Shipwash Lightship	52	49	50·7	+3·6		Teelin	52	46	49·8	+3·0
ENGLAND, S.E. ..	Eastbourne‡	52	51	51·4	+4·1	IRELAND, S.W. ..	Cleggan	51	49	49·8	+4·0
							Seafield	52	47	50·5	+2·5

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-EIGHTH WEEK—November 23rd to November 29th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	56	35	51·3	41·8	46·6	+ 6·3	33	+ 21	1	−24	6	0	2·37	+0·96	0·3	−0·6	4	− 9
Eastern.																		
1. SCOTLAND, EAST ...	59	32	51·7	40·8	46·3	+ 7·0	35	+ 24	3	−28	3	0	0·34	−0·35	1·3	+0·2	18	0
2. ENGLAND, N.E.	58	31	50·7	40·3	45·5	+ 4·4	32	+ 18	5	−16	4	− 1	0·20	−0·29	2·2	+0·7	28	+ 9
3. ENGLAND, EAST ...	57	25	51·9	38·7	45·3	+ 4·6	37	+ 22	9	−16	2	− 1	0·02	−0·48	2·9	+1·3	36	+16
4. MIDLAND COUNTIES ...	59	22	51·4	37·3	44·4	+ 4·0	37	+ 22	13	−13	2	− 2	0·07	−0·46	1·8	+0·4	22	+ 4
5. ENGLAND, S.E.	58	24	52·9	39·9	46·3	+ 3·9	39	+ 18	6	−12	2	− 1	0·05	−0·59	2·2	+0·6	27	+ 8
Western.																		
6. SCOTLAND, WEST ...	57	33	51·3	43·9	47·6	+ 5·4	39	+ 22	0	−17	6	+ 2	0·78	−0·47	0·9	−0·4	11	− 5
7. ENGLAND, N.W.	64	34	52·2	42·9	47·6	+ 5·3	39	+ 21	0	−15	5	+ 1	0·30	−0·56	1·5	+0·2	19	+ 2
8. ENGLAND, S.W.	58	26	52·2	41·2	46·7	+ 3·0	36	+ 11	2	−12	4	0	0·36	−0·64	1·2	−0·6	15	− 7
9. IRELAND, NORTH ...	58	30	52·5	42·1	47·3	+ 5·0	37	+ 19	0	−16	5	0	0·87	0·00	0·6	−0·9	7	−12
10. IRELAND, SOUTH ...	59	30	53·5	41·5	47·5	+ 3·7	41	+ 15	1	−12	5	0	0·62	−0·30	0·5	−1·2	7	−16
11. ENGLISH CHANNEL ...	56	38	53·8	45·6	49·7	+ 2·4	54	+ 14	0	− 2	5	0	0·29	−0·61	0·7	−1·3	8	−15

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 13 Weeks, August 31st to November 29th, 1913.

0. SCOTLAND, NORTH ...	71	28	*	*	*	*	667	+143	36	−81	60	− 6	15·27	−0·33	2·3	0·0	23	0
Eastern.																		
1. SCOTLAND, EAST ...	74	22	*	*	*	*	685	+132	57	−95	49	− 4	6·66	−1·90	2·5	−0·3	25	− 2
2. ENGLAND, N.E.	79	28	*	*	*	*	875	+219	20	−65	51	+ 1	6·58	−0·71	3·2	+0·1	30	+ 1
3. ENGLAND, EAST ...	76	25	*	*	*	*	1016	+268	14	−86	49	+ 2	7·31	+0·44	3·6	+0·2	35	+ 2
4. MIDLAND COUNTIES ...	79	22	*	*	*	*	921	+237	33	−85	49	+ 2	8·12	+0·76	2·8	−0·2	27	− 1
5. ENGLAND, S.E.	76	26	*	*	*	*	1089	+241	6	−61	47	+ 1	10·11	+1·62	3·6	+0·2	34	+ 2
Western.																		
6. SCOTLAND, WEST ...	73	25	*	*	*	*	783	+152	16	−66	56	+ 1	11·65	−2·86	2·4	−0·4	23	− 4
7. ENGLAND, N.W.	79	25	*	*	*	*	927	+219	5	−57	53	+ 1	9·35	−1·21	3·0	+0·2	28	+ 1
8. ENGLAND, S.W.	78	26	*	*	*	*	1035	+214	2	−49	55	+ 1	12·54	+0·61	3·1	−0·2	29	− 3
9. IRELAND, NORTH ...	71	24	*	*	*	*	852	+190	22	−49	61	+ 1	11·38	+0·37	2·7	−0·1	26	− 1
10. IRELAND, SOUTH ...	73	24	*	*	*	*	947	+172	22	−38	65	+11	14·10	+3·20	2·9	−0·4	27	− 4
11. ENGLISH CHANNEL ...	77	38	*	*	*	*	1286	+209	0	− 4	55	− 4	10·18	−0·30	4·2	+0·1	39	+ 1

THE YEAR.—Aggregates, &c., for the Period of 48 Weeks, December 29th, 1912, to November 29th, 1913.

0. SCOTLAND, NORTH ...	78	21	*	*	*	*	2,198	+120	460	−214	209	−17	43·98	−3·03	3·0	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	11	*	*	*	*	2,356	+ 33	658	−114	178	− 8	24·04	−4·09	3·5	−0·4	28	− 3
2. ENGLAND, N.E.	82	18	*	*	*	*	2,805	+199	426	−134	169	− 1	20·90	−1·85	3·7	−0·5	29	− 5
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,252	+244	317	−304	162	− 1	20·32	−1·46	4·1	−0·5	33	− 4
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	3,099	+179	425	−226	164	+ 2	25·05	+0·93	3·4	−0·7	27	− 5
5. ENGLAND, S.E.	84	22	*	*	*	*	3,434	+167	227	−221	156	0	25·34	+0·74	4·2	−0·4	34	− 3
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,640	+106	339	−168	194	− 1	38·45	−4·91	3·5	−0·5	28	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,938	+163	303	−145	186	+ 6	31·66	−0·11	3·8	−0·2	31	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	3,282	+169	223	−129	185	+ 6	36·34	+1·76	4·1	−0·4	33	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,722	+ 73	319	− 97	213	+ 1	35·57	+0·70	3·5	−0·2	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	3,135	+ 74	265	− 54	217	+28	41·63	+5·55	3·8	−0·4	30	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,821	+158	38	− 75	183	− 9	28·45	−0·71	4·7	−0·8	38	− 6

M.O., December 3, 1913

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 9, 10, and 6, the averages for district temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 49. FORTY-NINTH WEEK, SUNDAY, NOVEMBER 30TH, TO SATURDAY, DECEMBER 6TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. Very changeable conditions were experienced, and except in the north-east of England, precipitation was frequent. Late in the week a considerable quantity of snow fell in Scotland and the adjacent portion of England, and smaller amounts further south, while some snow and hail occurred in Ireland. Thunderstorms passed over some Scottish and Irish localities, and thunder was heard at Llangammarch Wells.

Temperature was at first high for the time of year over the whole Kingdom, but after the middle of the period it fell decidedly, the change in the north and north-east being very striking. In Scotland East, (at Balmoral) the thermometer in the screen fell to 7°, in Scotland North to 14°, in England North-East to 17°, and in England North-West to 18°. In England South-East and Ireland South the lowest reading was 33°, in England South-West 34°, and in the English Channel 37°. Early in the week the maxima were above 50° in almost all districts; as high as 57° in England East and Ireland South, and 58° in the Midland Counties and England South-East. On Saturday the thermometer in many parts of Scotland remained below 32° all day. The lowest grass readings were 5° at Balmoral, 10° at West Witton, 12° at Harrogate, 14° at Durham and 16° at Crathes and Marchmont. The temperature of the earth continued above the average both at a depth of 1 ft. and 4 ft.

Mean Temperature of the Sea was again above the normal at nearly all stations, and was higher than in the corresponding week of last year. On most Scottish coasts the water was, however, much colder than in the preceding week. The mean values ranged from 52°·5 at Plymouth and Salcombe to 42°·6 at Cromarty.

Rainfall exceeded the normal in Scotland, Ireland, and all but the north-eastern, eastern, and south-eastern parts of England. In most districts the excess was rather large. On the 2nd 1·4 in. fell at Fort William and 1·5 in. at Glencarron; on the 3rd 1·5 in. at Killarney and more than 1·0 in. at Blacksod Point, Newton Rigg, Glasgow and West Linton; on the 4th 1·0 in. at Foynes; and on the 5th more than 1·0 in. in the Channel Islands. At some stations in the north-east of England the total for the week was less than 0·1 in.

Bright Sunshine was more than the average in Scotland East, England North-East and England East, less elsewhere, especially in the south-western districts, where there was much mist and fog on the coast. In Scotland East, the daily mean was 2 hours and the percentage of the possible 29, while in Scotland North, Ireland and the English Channel the daily mean was only about 0·5 hour. In the English Channel only 5 per cent. of the possible duration was recorded.

Barometer and Wind. During the earlier half of the week the pressure distribution was favourable for Westerly to South-Westerly winds, and gales were experienced on most parts of the coast, the force being very strong in the west and south-west. On Thursday, when the barometer rose quickly in the rear of a depression which had passed across Scotland, the wind veered to the North-Westward, but continued to blow with the force of a gale for a time. By Saturday the pressure distribution had undergone a great modification. While a "V"-shaped depression extended south-eastwards from the Atlantic to the English Channel, a narrow tongue of relatively high pressure stretched north-westward from the Continent across Great Britain nearly to Iceland. The wind consequently became light and variable in Scotland, and Easterly in Wales and the Midland Counties, but continued Westerly on the south-west coasts of England, and blew a gale from the North-West at the mouth of the Channel.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 195.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Moderate	Moderate	Unusual	Unusual	Very unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Heavy	Heavy	Light	Light	Moderate	Moderate	Heavy	Heavy	Heavy	Very heavy	Heavy	Heavy
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Scanty	Scanty	Moderate	Moderate	Scanty	Scanty	Very scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1 week from Nov. 30th, 1913.	Warmth ...	0 * 1	0 * 0	0 * 0	1 * 0	1 * 0	1 * 0	0 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0
	Rainfall ...	1 * 0	1 * 0	0 * 1	0 * 1	0 * 0	0 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0
	Sunshine ...	0 * 0	1 * 0	0 * 0	0 * 0	0 * 1	0 * 1	0 * 0	0 * 0	0 * 1	0 * 1	0 * 1	0 * 1

PAST SEASONS.

WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9
AUTUMN, 1913. Aug. 31st–Nov. 29th. 13 weeks.	Warmth ...	6 * 0	8 * 0	8 * 0	10 * 0	11 * 0	11 * 0	6 * 0	9 * 0	9 * 0	8 * 0	9 * 2	11 * 0
	Rainfall ...	4 * 4	2 * 4	4 * 6	5 * 6	5 * 4	5 * 5	2 * 4	4 * 6	3 * 5	3 * 2	7 * 1	4 * 3
	Sunshine ...	5 * 4	5 * 6	6 * 3	4 * 1	4 * 3	5 * 2	1 * 4	6 * 3	4 * 6	2 * 5	2 * 6	2 * 4

(32926—24.) Wt. 196—786. 450. 12/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Rainfall. Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*44*	*2nd*	*30*	*5, 6*	*40·0*	*32·5*	*36·4*	—	*0*	*39*	•	•	39·4	•	•	•	*7*	*0·63*	—	*0·2*	—	*3*	—	*Baltasound.*
a Islands .. *a Lerwick*	45	2nd	30	6th	40·3	33·4	37·0	- 4·3	0	35	•	•	•	•	•	•	6	1·21	—	0·4	- 0·4	6	- 6	Deerness.
a Stornoway	44	2nd	23	6th	40·3	34·0	37·3	- 3·8	0	33	•	•	•	•	•	•	7	2·08	+ 0·71	0·9	- 0·1	14	- 2	Stornoway.
a Castlebay, Barra Isd.‡ ..	*52*	*2, 3*	*32*	*4th*	*46·0*	*37·9*	*42·1*	- *2·0*	*18*	*11*	•	•	•	•	•	•	*7*	*1·23*	—	*0·3*	—	*4*	—	*Castlebay.*
a Wick	48	3rd	19	6th	40·7	31·3	36·2	- 4·0	0	41	•	•	•	•	•	•	6	1·85	+ 1·19	•	•	•	•	•
p Strathpeffer ..	51	3rd	14	6th	44·1	30·9	37·8	- 0·9	6	42	•	•	•	•	•	•	6	2·03	+ 1·32	0·3	- 0·7	5	-10	Strathpeffer.
b Main- *a* Glencarron ..	50	3rd	18	6th	40·6	30·7	35·9	- 2·8	0	43	•	•	•	•	•	•	6	3·15	+ 0·92	•	•	•	•	•
land. *p* Fort Augustus..	50	3rd	16	6th	41·6	31·7	36·9	- 2·8	0	36	•	•	•	•	•	•	5	1·90	+ 0·73	0·3	0·0	5	0	Fort Augustus.
p Fort William ..	50	3rd	21	6th	42·1	33·4	37·9	- 3·5	0	31	•	•	•	•	•	•	5	3·04	+ 0·94	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle.. S	54	3rd	18	6th	41·7	32·3	37·2	- 2·7	0	34	*6*	16	40·9	+2·0	44·7	+2·6	—	—	—	2·4	—	35	—	Crathes S.
a Nairn .. .. S	50	3rd	15	6th	40·9	32·0	36·6	- 2·5	0	38	•	•	•	•	•	•	5	1·28	+ 0·72	*1·6*	—	*24*	—	*Gordon Castle*
a Aberdeen ..	53	3rd	24	6th	42·0	34·4	38·4	- 1·6	0	25	•	•	•	•	45·4	+2·3	6	1·47	+ 0·99	0·7	—	10	—	Nairn.
a Balmoral ..	51	2nd	7	6th	42·3	29·4	36·1	- 0·1	1	48	5	5	•	•	•	•	2	0·99	+ 0·32	2·1	+ 0·7	31	+10	Aberdeen.
p Crieff	52	30th	19	6th	42·9	32·1	37·7	- 1·5	3	37	•	•	•	•	•	•	4	1·01	+ 0·03	2·7	—	39	—	Balmoral.
a Leith .. .. S	54	3rd	22	6th	44·3	36·3	40·5	- 0·6	6	23	•	•	•	•	•	•	1	0·81	+ 0·37	•	•	•	•	Balruddery.
p West Linton .. S	51	2nd	10	6th	41·0	29·8	35·6	- 2·5	0	45	•	•	•	•	•	•	4	1·65	—	*0·8*	—	*11*	—	*West Linton*
p Marchmont .. S	51	3rd	21	6th	45·3	33·6	39·7	+ 1·1	9	33	3	16	41·0	+3·0	•	•	3	0·93	+ 0·31	2·0	+ 0·8	29	+12	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	53	3rd	20	6th	44·4	35·4	40·1	- 0·3	7	26	3	17	40·4	+2·3	45·3	+3·4	2	0·09	- 0·58	3·5	—	49	—	Cockle Park.
a Shields	54	2nd	25	6th	45·7	38·1	42·1	+ 1·0	17	11	•	•	•	•	•	•	2	0·03	- 0·41	•	•	•	•	•
p Durham	53	2, 3	17	6th	46·0	35·6	41·0	+ 1·8	11	27	2	14	•	•	•	•	1	0·10	- 0·35	1·2	- 0·2	16	- 3	Durham.
a, North .. *p* Rounton	53	30th	17	6th	45·7	34·9	40·5	+ 1·3	10	29	4	18	43·1	•	•	•	1	0·32	- 0·09	•	•	•	•	Rounton.
a West Witton ..	*50*	*2, 3*	*18*	*6th*	*42·6*	*35·7*	*39·3*	—	*2*	*24*	2	10	43·5	•	45·9	•	*3*	*0·53*	—	•	•	•	•	*West Witton.*
p Scarborough ..	55	30th	29	6th	47·1	36·1	42·8	+ 1·3	22	11	•	•	•	•	48·4†	•	3	0·18	- 0·35	1·1	—	15	—	Scarborough.
p York	54	30, 2, 3	19	6th	48·0	37·3	42·9	+ 2·4	26	13	•	•	45·7	+4·3	47·9	+2·4	3	0·32	- 0·12	0·4	- 0·5	5	- 7	York.
											1	18	43·0	+2·8	48·1	+2·1	—	—	—	*0·5*	—	*7*	—	*Hull.*
a Spurn Head ..	52	3rd	31	6th	45·9	39·6	42·9	+ 1·1	16	7	•	•	•	•	•	•	3	0·24	- 0·17	*1·4*	—	*18*	—	*Spurn Head.*
b, South .. *a* Lincoln	53	3rd	31	6th	46·6	38·9	42·9	+ 2·9	19	9	•	•	43·9	+3·7	48·0	+2·7	2	0·06	- 0·37	•	•	•	•	Lincoln.
a Fulbeck	53	30th	32	6th	45·9	38·6	42·4	+ 3·3	17	10	2	26	45·2	+4·2	48·8	+2·4	3	0·14	- 0·29	1·2	—	16	—	Rauceby.
											•	•	•	•	•	•	—	—	—	1·4	—	18	—	Skegness.
											3	25	44·4	+2·2	49·1	+2·8	—	—	—	*1·9*	—	*25*	—	*Lowestoft.*
p Cromer	54	30th	32	5th	49·1	39·7	44·6	+ 5·1	28	6	•	•	•	•	•	•	5	0·12	—	1·4	—	18	—	Cromer.
p Little Massingham ..	54	30th	29	6th	47·6	37·6	42·8	+ 3·3	24	12	2	22	•	•	•	•	3	0·23	- 0·32	1·7	—	23	—	Lit. Massingham
a, North .. *a* Yarmouth ..	55	30th	32	6th	47·7	38·4	43·2	+ 2·3	24	10	•	•	44·9	+3·6	49·6	+3·2	3	0·26	- 0·24	2·1	—	27	—	Yarmouth.
a Norwich	55	30th	26	6th	48·6	37·9	42·4	+ 2·2	20	11	3	22	43·8	•	•	•	4	0·39	—	*1·5*	—	*20*	—	*Norwich.*
p Geldeston	56	30th	25	6th	50·4	37·7	44·3	+ 3·3	34	12	•	•	•	•	•	•	5	0·25	- 0·24	1·7	0·0	22	0	Geldeston.
p Cambridge	56	30th	31	5th	50·4	39·0	44·9	+ 4·5	33	8	3	26	45·1	+3·6	49·0	+2·7	4	0·40	+ 0·01	1·6	+ 0·2	21	+ 2	Cambridge.
a Felixstowe	*55*	*30th*	*34*	*6th*	*48·7*	*40·9*	*45·0*	+ *3·4*	*26*	*3*	•	•	•	•	•	•	*6*	*0·41*	—	*1·6*	—	*21*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	54	30th	34	6th	48·7	41·4	45·2	+ 3·7	25	2	1	29	47·1	+2·7	50·9	+2·8	5	0·23	—	1·5	—	19	—	Clacton.
a Rothamsted	57	30th	33	5th	49·4	40·6	45·2	+ 5·0	28	4	•	•	•	•	•	•	6	0·33	- 0·24	1·2	- 0·3	15	- 4	Rothamsted.
a Shoeburyness	*54*	*30th*	*36*	*6th*	*50·0*	*41·1*	*45·7*	+ *3·7*	*30*	*3*	2	28	47·6	+4·4	•	•	*5*	*0·27*	- *0·09*	*1·2*	—	*15*	—	*Southend.*
p Tottenham	54	30th	37	5th	50·4	44·0	47·3	+ 6·1	37	0	0	33	•	•	51·0	+3·5	4	0·30	—	0·7	—	9	—	Tottenham.
											1	24	44·1	+4·4	47·5	+3·2	—	—	—	*1·0*	—	*13*	—	*Huddersfield.*
a Harrogate	51	3rd	21	6th	42·6	36·0	39·4	+ 0·1	2	22	2	12	44·5	+3·9	46·3	+3·4	4	0·50	- 0·10	1·0	—	14	—	Harrogate.
a Bawtry	53	2, 3	25	6th	45·7	38·1	42·1	+ 2·4	17	11	3	23	44·8	•	47·3	•	3	0·30	- 0·14	0·7	- 0·4	9	- 5	Worksop.
p Buxton	*50*	*30th*	*30*	*4, 6*	*43·9*	*36·1*	*40·2*	+ *2·3*	*5*	*23*	1	24	44·1	+4·6	47·8	+2·7	*7*	*1·12*	- *0·01*	*0·9*	—	*12*	—	*Buxton.*
a, East .. *a* Nottingham ..	53	30, 2, 3	32	6th	47·0	39·1	43·2	+ 3·0	21	8	2	29	43·5	+3·6	47·2	+3·3	5	0·37	- 0·09	0·7	—	9	—	Nottingham.
p Birmingham, Edgbsn.	52	30th	33	4th	47·4	39·9	43·8	+ 3·8	21	6	2	28	45·5	+3·4	49·0	+2·2	5	0·86	+ 0·32	0·3	—	4	—	Birmingham.
a Raunds	55	30th	33	5, 6	47·9	38·0	43·2	+ 3·3	25	11	3	28	45·6	•	50·6	•	6	0·23	—	•	•	•	•	Raunds.
p Oxford	55	30th	35	5th	51·0	43·1	47·2	+ 6·5	36	0	1	30	•	•	•	•	6	0·46	- 0·04	1·4	0·0	18	0	Oxford.
											2	26	45·0	+4·5	47·9	+2·5	—	—	—	0·9	—	12	—	Sheffield.
a Cheadle	51	30th	32	4, 6	46·3	36·6	41·6	+ 2·5	12	23	1	30	•	•	•	•	5	0·68	+ 0·03	•	•	•	•	Cheadle.
p Shrewsbury ..	57	30th	34	4th	50·3	40·1	45·4	+ 3·3	32	5	0	33	•	•	•	•	5	0·93	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	57	30th	35	5th	49·0	40·9	45·6	+ 5·1	30	3	2	28	•	•	•	•	5	0·74	+ 0·20	•	•	•	•	Hereford.
a Cirencester ..	58	30th	33	5th	49·3	41·3	45·5	+ 6·0	27	2	1	30	46·9	•	49·0	•	6	0·97	+ 0·34	0·8	—	10	—	Cirencester.
a Bath	56	2nd	35	5th	52·4	43·6	48·2	+ 6·6	43	0	•	•	•	•	•	•	6	1·53	+ 0·84	0·6	—	8	—	Bath.
5. ENGLAND, S.E.																								
											2	27	47·9	+4·6	51·0	+5·4	—	—	—	•	•	•	•	Canterbury.
p Kew	54	30th	37	5th	51·1	44·0	47·7	+ 6·3	40	0	1	30	47·0	+4·8	49·8	+2·8	6	0·39	- 0·08	0·9	- 0·5	11	- 6	Kew.
a Marlborough	?52	30, 1	?34	5th	?48·7	?42·1	?45·5	+ 5·6	25	0	2	27	•	•	50·0	•	5	1·08	+ 0·40	0·7	- 0·5	9	- 6	Marlborough.
a Margate	55	30th	34	5th	50·7	41·9	46·5	+ 4·2	32	0	1	30	49·2	+5·5	51·5	+5·3	2	0·21	- 0·27	0·7	- 0·9	9	-12	Margate.
a Wisley, Surrey ..	54	30th	35	5th	49·6	42·7	46·3	+ 4·5	30	0	2	26	47·0	+4·6	49·3	+2·8	6	0·45	—	1·0	—	13	—	Wisley.
											0	31	48·4	+4·9	51·7	+3·7	—	—	—	0·7	—	9	—	Worthing.
p Salisbury (Wilton) ..	58	30th	33	5th	52·0	42·4	47·4	+ 6·7	38	0	1	28	48·1	•	•	•	7	1·48	+ 0·71	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	54	30, 1	37	6th	50·9	44·1	47·6	+ 4·4	39	0	•	•	•	•	•	•	4	0·22	- 0·31	0·8	—	10	—	Littlestone.
p Hastings..	54	30, 1, 2	34	5th	51·9	44·3	48·3	+ 5·4	44	0	1	28	47·9	•	51·0	•	5	0·34	- 0·32	*0·8*	- *1·1*	*10*	-*14*	*Hastings.*
p Southampton	56	1st	35	5th	52·1	45·3	48·8	+ 6·1	48	0	1	30	•	•	•	•	6	0·75	+ 0·06	0·6	- 1·0	8	-13	Southampton.
a Ventnor	56	1st	39	5th	52·3	46·9	49·7	+ 4·5	54	0	•	•	•	•	•	•	6	0·86	+ 0·14	1·0	- 0·7	13	- 9	Ventnor.
											0	32	49·6	+4·9	52·1	+3·4	—	—	—	*0·6*	—	*8*	—	*Portsmouth.*
											•	•	49·6	•	52·7	•	—	—	—	0·7	- 1·1	9	-13	Eastbourne.
											•	•	48·0	•	49·9	•	—	—	—	*0·9*	—	*11*	—	*Bournemouth.*
LONDON.											0	37	•	•	51·0	•	—	—	—	0·7	- *1·0*	*9*	-*13*	*Brighton.*
a Westminster	*55*	*30th*	*37*	*5th*	*51·0*	*44·0*	*47·6*	+ *6·1*	*39*	*0*	0	32	•	•	•	•	*5*	*0·27*	- *0·21*	*0·5*	*0·0*	*6*	*0*	*Westminster.*
a Greenwich	*54*	*30th*	*35*	*5th*	*49·9*	*43·1*	*46·6*	+ *5·4*	*32*	*0*	2	27	•	•	•	•	*5*	*0·30*	- *0·17*	*0·7*	- *0·5*	*9*	- *6*	*Greenwich.*
a Hampstead	*52*	*30th*	*34*	*5th*	*48·9*	*41·3*	*45·3*	—	*26*	*2*	3	21	•	•	•	•	*5*	*0·35*	—	*0·7*	—	*9*	—	*Hampstead.*
a Camden Square ..	*55*	*30th*	*35*	*5th*	*50·3*	*43·1*	*46·8*	—	*34*	*0*	0	31	•	•	•	•	*5*	*0·31*	—	*0·7*	—	*9*	—	*Camden Square.*
6. *a* SCOTLAND, W.																								
a Poltalloch .. S	50	2, 3	26	6th	43·0	36·4	39·8	- 1·4	3	21	•	•	•	•	•	•	6	2·64	+ 1·39	•	•	•	•	•
p Glasgow	52	2nd	27	6th	43·7	36·1	40·1	- 0·7	5	23	3	20	•	•	•	•	4	1·48	+ 0·59	0·6	+ 0·1	9	+ 2	Glasgow.
p Rothesay .. S	52	3rd	30	5th	44·6	36·9	40·9	- 0·8	7	21	3	26	44·4	•	47·2	+2·9	5	1·36	+ 0·24	*1·0*	—	*14*	•	*Rothesay.*
a Kilmarnock	51	2, 3	26	6th	43·6	35·9	39·9	- 1·4	4	24	•	•	•	•	•	•	5	2·50	—	*0·6*	—	*8*	•	*Kilmarnock.*
a Colmonell ..	52	3rd	32	5th	46·6	38·6	42·8	+ 1·2	20	10	0	32	•	•	•	•	6	2·54	+ 1·36	•	•	•	•	•
p Dumfries	53	30th	27	6th	45·6	36·3	41·1	+ 0·7	10	24	3	22	44·0	•	47·1	•	6	0·77	- 0·13	*1·2*	—	*16*	—	*Dumfries.*
p Cally, Gatehouse ..	51	2nd	30	6th	44·7	36·7	40·9	+ 0·5	8	22	•	•	•	•	•	•	6	1·63	+ 0·40	•	•	•	•	•
b I. OF MAN.																								
p Douglas	52	30, 2, 3	35	4th	47·6	39·3	43·6	+ 0·3	23	8	0	31	•	•	•	•	6	1·53	+ 0·43	1·3	- 0·2	18	- 3	Douglas.
											2	26	43·9	+4·2	47·7	+3·5	—	—	—	*0·9*	—	*12*	—	*Burnley.*
											1	30	•	•	•	•	—	—	—	1·2	—	16	•	Hoylake.
p Aspatria	51	30, 2, 3	24	6th	46·3	37·4	42·0	+ 1·6	12	13	1	22	45·6	•	48·1	•	4	1·39	+ 0·46	0·9	—	12	—	Aspatria.
p Newton Rigg	53	30th	18	6th	45·6	35·1	40·6	+ 0·8	10	28	3	17	44·5	+4·2	46·6	+2·9	3	1·94	+ 1·08	1·1	- 0·1	15	- 2	Newton Rigg.
p Stonyhurst	51	30, 3, 4	30	6th	48·7	38·9	44·0	+ 3·4	27	9	3	23	•	•	•	•	5	1·96	+ 0·95	1·3	+ 0·3	17	+ 4	Stonyhurst.
p Blackpool	53	3rd	33	6th	49·0	41·1	45·2	+ 3·6	26	3	1	29	47·0	•	49·7	•	5	0·75	+ 0·02	1·7	+ 0·7	22	+ 9	Blackpool.
p Manchester (Whit. Pk.)	54	30th	34	4, 6	48·7	40·4	44·7	+ 3·4	26	4	•	•	•	•	•	•	6	1·17	+ 0·56	*0·4*	*0·0*	*5*	*0*	*Whit. Park.*
a Liverpool (Bidston) ..	53	2, 3	35	4–6	47·3	40·6	44·1	+ 2·4	21	4	•	•	•	•	•	•	5	1·25	+ 0·70	*1·0*	•	*13*	—	*Liverpool.*
a Hawarden Bridge ..	55	2nd	34	3rd	49·6	40·7	45·3	+ 2·5	29	4	2	30	44·7	+5·0	47·4	+3·8	6	1·19	+ 0·69	*1·3*	+ *0·2*	*17*	+ *3*	*Southport.*
											2	29	45·5	+4·8	50·2	+4·3	—	—	—	*0·3*	—	*4*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	56	3rd	36	4th	49·1	42·3	45·8	+ 1·7	27	0	•	•	•	•	•	•	6	1·04	+ 0·38	1·0	- 0·3	13	- 4	Llandudno.
a Holyhead	53	2, 3	40	4th	49·3	45·1	47·3	+ 2·7	37	0	•	•	•	•	•	•	4	0·87	- 0·04	*0·7*	—	*9*	—	*Holyhead.*
p Bettws-y-Coed ..	?	?	37	6th	?	41·7	?	?	?	?	?	?	46·1	+4·4	48·9	+3·1	6	1·78	—	0·4	—	5	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	0·0	—	0	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Average	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	•	•	•	0·1	—	1	—	
a Llangammarch Wells	51	30, 3	35	4th	47·1	41·6	44·5	+ 4·7	19	1	0	32	46·5	+3·7	49·2	+1·9	7	1·68	+ 0·78	0·1	—	1	—	Aberystwyth.
a Pembroke	54	30, 3, 4	40	4th	53·0	46·6	49·9	+ 3·9	55	0	•	•	•	•	•	•	7	1·29	+ 0·29	0·4	- 1·2	5	-16	Llangammarch
p Cardiff	53	30th	37	4, 5	49·7	43·3	46·6	+ 5·1	32	0	0	32	47·6	+5·1	49·9	+3·3	7	1·21	+ 0·44	*0·7*	—	*9*	—	Pembroke.[Wells *Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	53	30, 1-3	38	5th	50·3	44·1	47·3	+ 4·7	37	0	0	33	•	•	•	•	7	1·44	+ 0·64	*0·6*	—	*8*	—	*Clifton.*
a Shaftesbury	52	30th	34	5th	47·6	41·9	44·9	+ 3·9	21	0	•	•	47·0	•	50·0	•	7	1·18	- 0·18	•	•	•	•	Shaftesbury.
a Arlington	51	30, 1, 3	36	4th	49·6	43·1	46·5	+ 4·2	32	0	•	•	•	•	•	•	7	3·62	+ 2·78	•	•	•	•	Arlington.
a Newquay	*54*	*1st*	*40*	*5th*	*52·3*	*46·1*	*49·3*	+ *2·9*	*51*	*0*	•	•	50·2	•	•	•	*6*	*1·50*	—	0·6	- 1·3	8	-16	Newquay.
a Cullompton	55	30, 1	38	4, 5	51·7	45·1	48·5	+ 6·1	46	0	0	31	48·9	•	•	•	7	1·09	—	0·7	- 0·7	9	- 9	Cullompton.
a Portland	56	2nd	41	5th	53·3	47·7	50·6	+ 5·5	60	0	•	•	•	•	•	•	5	1·10	+ 0·15	*0·5*	—	*6*	—	*Weymouth.*
p Plymouth	56	1st	38	4th	53·3	46·9	50·2	+ 5·1	57	0	0	34	49·5	+3·9	•	•	5	0·96	- 0·29	0·6	- 1·1	8	-14	Plymouth.
a Falmouth	56	30, 1	37	4th	52·7	44·1	48·6	+ 2·3	46	0	0	32	•	•	•	•	5	1·70	+ 0·85	1·0	- 0·9	13	-11	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	52	3rd	32	5th	47·4	39·7	43·7	+ 0·5	22	6	•	•	•	•	•	•	7	2·25	+ 1·50	•	•	•	•	• •
a Blacksod Point ..	52	2, 3	35	4th	50·0	42·3	46·3	+ 1·5	30	0	•	•	•	•	•	•	7	2·19	+ 0·89	•	•	•	•	• •
p Markree Castle ..	53	2, 3	35	4th	49·1	37·7	43·6	+ 1·9	29	12	0	32	46·2	•	49·5	•	7	2·48	+ 1·47	0·6	- 0·7	8	- 9	Markree Castle.
a Birr Castle	54	30th	33	4th	50·0	40·7	45·5	+ 3·8	30	4	•	•	•	•	•	•	6	1·48	+ 0·76	*0·7*	- *1·0*	*9*	- *13*	*Birr Castle.*
b, East .. *p* Armagh	52	30, 2, 3	34	4, 5	47·9	37·4	42·9	+ 1·4	26	13	1	26	46·1	+4·6	48·7	+3·0	6	1·22	+ 0·56	0·5	- 0·9	7	-12	Armagh.
a Donaghadee	52	2, 3	34	5th	46·6	38·4	42·7	- 0·1	20	10	•	•	•	•	•	•	5	1·14	+ 0·44	•	•	•	•	• •
10. IRELAND, S.											0	31	46·9	+4·4	49·0	+2·7	—	—	—	•	•	•	•	Trinity Coll.
p Dublin, City	54	30, 3	34	4th	49·1	40·3	44·9	+ 0·8	27	5	0	31	•	•	•	•	—	—	—	0·9	- 0·9	12	-12	Phœnix Park.
a, East .. *a* Kilkenny ..	53	2nd	34	4th	49·6	41·3	45·6	+ 3·4	28	2	0	32	•	•	•	•	5	1·23	+ 0·70	•	•	•	•	Dublin City.
a Waterford ..	53	30, 2, 6	34	4th	51·1	42·9	47·2	+ 3·8	36	0	•	•	•	•	•	•	7	1·30	+ 0·56	•	•	•	•	• •
a Carrick-on-Suir ..	*52*	*30, 2*	*32*	*4th*	*49·1*	*40·0*	*44·7*	—	*27*	*6*	2	22	•	•	•	•	5	1·25	+ 0·30	•	•	•	•	• •
b, West .. *a* Birr Castle	54	30th	33	4th	50·0	40·7	45·5	+ 3·8	30	4	•	•	•	•	•	•	*6*	*1·29*	—	*0·7*	—	*9*	—	*Carrick-on-Suir.*
a Foynes	54	30th	38	4th	51·6	42·7	47·3	+ 3·1	37	0	•	•	•	•	•	•	6	1·48	+ 0·76	0·7	- 1·0	9	-13	Birr Castle.
a Cahir	54	30th	34	4th	50·7	41·7	46·4	+ 3·2	32	1	•	•	•	•	•	•	6	2·30	+ 1·30	•	•	•	•	• •
a Killarney	57	2nd	38	4th	52·5	45·1	49·0	+ 4·5	49	0	•	•	•	•	•	•	7	1·40	—	•	•	•	•	• •
a Valencia	55	30, 3, 6	37	4th	52·3	45·1	48·8	+ 2·3	48	0	•	•	•	•	•	•	7	3·00	+ 1·47	•	•	•	•	• •
a Roche's Point ..	54	30th	37	4th	51·9	44·9	48·5	+ 2·9	46	0	•	•	•	•	•	•	7	1·81	+ 0·41	0·3	- 1·3	4	-17	Valencia.
11. ENGLISH CHANNEL.																	7	0·99	- 0·14	0·3	—	4	—	Ballinacurra.
a Scilly, St. Mary's ..	54	3, 5	37	4th	52·7	45·7	49·3	+ 0·7	51	0	•	•	•	•	•	•	7	1·35	+ 0·49	0·6	- 1·3	7	-16	Scilly.
a Jersey, St. Aubins ..	56	1st	41	5th	53·4	47·0	50·3	+ 4·0	58	0	•	•	•	•	•	•	6	2·09	+ 1·19	0·4	- 1·8	5	-22	St. Heliers.
a Guernsey (Villa Carey)	54	5, 6	41	4, 5	52·9	46·3	49·7	+ 2·9	54	0	0	36	50·2	+3·3	52·9	+2·4	6	1·74	+ 0·74	0·2	- 1·4	3	-17	Guernsey.*

Additional Sunshine Means:—*Bognor, 0·8 hrs. 8 %; Ramsgate, 1·2 hrs. 15 %; Rhyl, 1·0 hrs. 13 %; Salcombe, 0·5 hrs. 6 %; Tenby, 0·6 hrs. (−1·0) 8 % (−13); Torquay, 0·8 hrs. (−1·0) 10 % (−12).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, December 6th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	48	46	46·9	+1·6	SCOTLAND, W. ..	Lamlash	49	48	48·7	+0·8
	Kirkwall	47	41	44·7	+1·8		Ballantrae	49	47	47·7	+3·2
	Wick	49	47	48·2	+1·5	ENGLAND, N.W. ..	Port Erin	52	48	50·3	+1·2
	Cromarty	47	37	42·6	+0·4	ENGLAND, S.W. ..	Newquay	52	52	52·0	+2·8
SCOTLAND, E. ..	Pennan Bay	48	45	45·9	+2·7		Scilly	54	50	51·2	—
	Aberdeen, Cove Bay	47	45	46·3	+1·9		Plymouth‡	54	51	52·5	+2·1
ENGLAND, N.E. ..	Burnmouth, Berwick	49	44	47·0	+3·6		Salcombe	54	51	52·5	+2·7
	Scarborough	46	40	43·6	-0·6	IRELAND, N.W. ..	Sheephaven	49	45	47·1	+0·4
ENGLAND, E. ..	Shipwash Lightship	52	48	50·0	+4·0		Teelin	52	46	48·9	+3·4
ENGLAND, S.E. ..	Eastbourne‡	51	49	50·4	+3·2	IRELAND, S.W. ..	Cleggan	51	49	49·8	+4·5
							Seafield	52	49	51·0	+3·4

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-NINTH WEEK—November 30th to December 6th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.† Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	50	14	41·4	32·2	37·0	− 2·8	0	− 10	35	+ 7	6	+ 1	2·18	+0·64	0·5	−0·3	8	− 4
Eastern.																		
1. SCOTLAND, EAST ...	54	7	42·6	32·5	37·7	− 0·7	2	− 7	35	+ 1	4	− 1	1·15	+0·37	2·0	+0·8	29	+12
2. ENGLAND, N.E.	55	17	46·1	37·4	42·0	+ 1·9	11	0	13	−13	2	− 2	0·16	−0·39	1·5	+0·1	20	+ 2
3. ENGLAND, EAST ...	57	25	48·9	39·6	44·4	+ 4·6	27	+ 14	7	−23	4	− 1	0·28	−0·26	1·5	+0·1	19	+ 1
4 MIDLAND COUNTIES ...	58	21	48·1	39·7	44·1	+ 4·5	24	+ 11	6	−25	5	+ 1	0·69	+0·09	0·8	−0·5	10	− 6
5. ENGLAND, S.E.	58	33	51·0	43·7	47·5	+ 5·8	39	+ 20	0	−21	5	0	0·64	−0·07	0·8	−0·7	10	− 9
Western.																		
6. SCOTLAND, WEST ...	53	26	44·9	37·0	41·1	− 0·5	8	− 7	21	+ 2	6	+ 1	1·81	+0·46	1·0	−0·1	13	− 2
7. ENGLAND, N.W.	55	18	48·2	40·2	44·3	+ 2·8	24	+ 9	5	−14	5	0	1·33	+0·43	1·0	−0·2	13	− 2
8. ENGLAND, S.W.	56	34	50·8	44·4	47·8	+ 4·7	41	+ 17	0	−15	6	+ 1	1·53	+0·37	0·5	−1·1	16	−14
9. IRELAND, NORTH ...	54	32	48·5	39·4	44·1	+ 2·6	26	+ 11	7	−13	6	0	1·79	+0·88	0·6	−0·8	7	−11
10. IRELAND, SOUTH ...	57	33	51·0	42·7	47·0	+ 3·7	35	+ 10	0	−15	6	+ 1	1·64	+0·63	0·6	−1·1	7	−14
11. ENGLISH CHANNEL ...	56	37	53·0	46·3	49·8	+ 3·0	55	+ 18	0	− 3	6	+ 1	1·73	+0·67	0·4	−1·5	5	−18

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 1 Week, November 30th to December 6th, 1913.

0. SCOTLAND, NORTH ...	50	14	*	*	*	*	0	− 10	35	+ 7	6	+ 1	2·18	+0·64	0·5	−0·3	8	− 4
Eastern.																		
1. SCOTLAND, EAST ...	54	7	*	*	*	*	2	− 7	35	+ 1	4	− 1	1·15	+0·37	2·0	+0·8	29	+12
2. ENGLAND, N.E.	55	17	*	*	*	*	11	0	13	−13	2	− 2	0·16	−0·39	1·5	+0·1	20	+ 2
3. ENGLAND, EAST ...	57	25	*	*	*	*	27	+ 14	7	−23	4	− 1	0·28	−0·26	1·5	+0·1	19	+ 1
4. MIDLAND COUNTIES ...	58	21	*	*	*	*	24	+ 11	6	−25	5	+ 1	0·69	+0·09	0·8	−0·5	10	− 6
5. ENGLAND, S.E.	58	33	*	*	*	*	39	+ 20	0	−21	5	0	0·64	−0·07	0·8	−0·7	10	− 9
Western.																		
6. SCOTLAND, WEST ...	53	26	*	*	*	*	8	− 7	21	+ 2	6	+ 1	1·81	+0·46	1·0	−0·1	13	− 2
7. ENGLAND, N.W.	55	18	*	*	*	*	24	+ 9	5	−14	5	0	1·33	+0·43	1·0	−0·2	13	− 2
8. ENGLAND, S.W.	56	34	*	*	*	*	41	+ 17	0	−15	6	+ 1	1·53	+0·37	0·5	−1·1	6	−14
9. IRELAND, NORTH ...	54	32	*	*	*	*	26	+ 11	7	−13	6	0	1·79	+0·88	0·6	−0·8	7	−11
10. IRELAND, SOUTH ...	57	33	*	*	*	*	35	+ 10	0	−15	6	+ 1	1·64	+0·63	0·6	−1·1	7	−14
11. ENGLISH CHANNEL ...	56	37	*	*	*	*	55	+ 18	0	− 3	6	+ 1	1·73	+0·67	0·4	−1·5	5	−18

THE YEAR.—Aggregates, &c., for the Period of 49 Weeks, December 29th, 1912, to December 6th, 1913.

0. SCOTLAND, NORTH ...	78	14	*	*	*	*	2,198	+110	495	−207	215	−16	46·16	−2·39	2·9	−0·3	23	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	7	*	*	*	*	2,358	+ 26	693	−113	182	− 9	25·19	−3·72	3·5	−0·3	28	− 3
2. ENGLAND, N.E.	82	17	*	*	*	*	2,816	+199	439	−147	171	− 3	21·06	−2·24	3·6	−0·5	29	− 4
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,279	+258	324	−327	166	− 2	20·60	−1·72	4·0	−0·5	33	− 4
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	3,123	+190	431	−251	169	+ 3	25·74	+1·02	3·4	−0·6	27	− 5
5. ENGLAND, S.E.	84	22	*	*	*	*	3,473	+187	227	−242	161	0	25·99	+0·68	4·1	−0·5	34	− 4
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,648	+ 99	360	−166	200	0	40·26	−4·45	3·4	−0·5	28	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,962	+172	308	−159	191	+ 6	32·99	+0·32	3·8	−0·2	30	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	3,323	+186	223	−144	191	+ 7	37·87	+2·13	4·0	−0·5	32	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,748	+ 84	326	−110	219	+ 1	37·36	+1·58	3·4	−0·3	28	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	3,170	+ 84	265	− 69	223	+29	43·27	+6·18	3·7	−0·4	30	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,876	+176	38	− 78	189	− 8	30·18	−0·04	4·6	−0·8	38	− 6

M.O., December 10, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 50. FIFTIETH WEEK, SUNDAY, DECEMBER 7TH, TO SATURDAY, DECEMBER 13TH, 1913.

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I.—General Remarks.

Weather. The general conditions were dry over England, although the sky was usually cloudy or overcast. In the north and west of Scotland rain was frequent, and in Ireland and the western portions of Great Britain there were few days without a measurable quantity.

Temperature was low in Scotland at the beginning of the week, but soon rose rapidly, so that the mean for the week was in excess of the normal over the entire Kingdom, the greatest difference being 6° in the Midland Counties. The highest of the maxima were recorded on the 8th or 9th, and ranged from 59° in Scotland East to 54° in England South-West. The lowest of the minima, which occurred on the 7th in the north and east of Great Britain, and the 13th elsewhere, varied from 5° in Scotland East (at Balmoral), 17° in Scotland North and 20° in England North-East to 35° in England South-West and to 44° in the English Channel. The lowest grass readings were 3° at Balmoral, 14° at West Witton, 15° at Crathes, 17° at Durham and 19° at Marchmont and Newton Rigg. Over the Kingdom generally the temperature of the soil was still above the average, both at a depth of 1 foot and 4 feet.

Mean Temperature of the Sea was again above the normal on almost all parts of the coast, the mean for the week ranging from 53° at Plymouth, 52° at Newquay, and about 50° at Scilly, Cleggan and Seafield to 43° at Kirkwall, Cromarty and Scarborough. At nearly all the stations the water was warmer than in the corresponding week of last year.

Rainfall was less than the average in all districts except Scotland North. Over the eastern half of England the fall was less than 0·05 in., and at several stations the week was rainless.

Bright Sunshine was below the normal except in Scotland East. The percentage of the possible duration in that district was 18, but in Scotland West and Ireland North it was only 8, and in Scotland North only 4. Over the major portion of the Kingdom the daily mean was less than 1 hour, and in Scotland North only 0·3 hour.

Barometer and Wind. At the commencement of the week a high pressure ridge extended from the Bay of Biscay region to beyond the north of Scotland, the wind being moderate from the Westward in Ireland, but light and variable over Great Britain. By Monday, however, the high pressure had retreated to the Continent, and the wind had become South-Westerly or Southerly over these Islands, and the force had increased. From this time onward the barometer was highest to the southward or south-westward of this country, while the centres of large depressions travelled eastward from Iceland to northern Europe. The main wind direction consequently became Westerly, and its force varied from a light to fresh breeze in the south to a strong breeze or a high wind in the north-west and north. In Scotland, the north of England and the north of Ireland the force of a gale was experienced at times.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 199.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Moderate	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 2 weeks from Nov. 30th, 1913.	Warmth ...	1 * 1	1 * 0	1 * 0	2 * 0	2 * 0	2 * 0	1 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0
	Rainfall ...	1 * 0	1 * 1	0 * 2	0 * 2	0 * 1	0 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1
	Sunshine ...	0 * 0	1 * 0	0 * 0	0 * 0	0 * 2	0 * 2	0 * 1	0 * 0	0 * 2	0 * 2	0 * 2	0 * 2

PAST SEASONS.

WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9
AUTUMN, 1913. Aug. 31st–Nov. 29th. 13 weeks.	Warmth ...	6 * 0	8 * 0	8 * 0	10 * 0	11 * 0	11 * 0	6 * 0	9 * 0	9 * 0	8 * 0	9 * 2	11 * 0
	Rainfall ...	4 * 4	2 * 4	4 * 6	5 * 6	5 * 4	5 * 5	2 * 4	4 * 6	3 * 5	3 * 2	7 * 1	4 * 3
	Sunshine ...	5 * 4	5 * 6	6 * 3	4 * 1	4 * 3	5 * 2	1 * 4	6 * 3	4 * 6	2 * 5	2 * 6	2 * 4

(33046—24.) Wt. 196—786. 450. 12/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Rainfall. Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*51*	*8, 9*	*23*	*7th*	*48·1*	*37·9*	*43·2*	—	*26*	*11*	•	•	41·7		•		*7*	*1·49*	—	*0·2*	—	*4*	—	*Baltasound.*
a Lerwick	51	8th	31	7th	48·0	39·6	44·0	+ 3·3	24	7	•	•	•		•		7	1·61	—	0·0	- 0·8	0	-13	Deerness.
a Stornoway	55	8th	33	7th	49·1	41·3	45·4	+ 5·1	27	2	•	•	•		•		7	1·14	- 0·27	0·3	- 0·6	5	- 9	Stornoway.
a Castlebay, Barra Isd.‡ ..	*53*	*8th*	*39*	*7th*	*50·1*	*44·3*	*47·3*	+ *4·0*	*37*	*0*							*6*	*0·34*	—	*0·3*	—	*5*	—	*Castlebay.*
a Wick	54	8th	18	7th	47·7	36·4	42·3	+ 2·7	26	16	•	•	•		•		5	0·64	- 0·03	•	•	•	•	
p Strathpeffer	57	8th	17	7th	49·3	36·4	43·1	+ 5·4	31	16	•	•	•		•		6	0·89	+ 0·13	0·7	- 0·3	11	- 4	Strathpeffer.
p Glencarron	52	8th	24	7th	48·4	38·7	43·7	+ 5·8	26	9	•	•	•		•		7	3·57	+ 1·27	•	•	•	•	
p Fort Augustus	56	9th	21	7th	49·0	37·3	43·4	+ 4·4	30	13	•	•	•		•		5	0·96	- 0·29	0·1	0·2	2	- 3	Fort Augustus.
p Fort William	55	8th	26	7th	49·0	39·1	44·3	+ 3·7	28	8	•	•	•		•		7	2·45	+ 0·23	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle .. S	59	9th	19	7th	50·9	37·0	44·2	+ 5·1	36	14	•	•	•		•		—	—	—	1·5	—	23	—	Crathes S.
a Nairn	55	8th	15	7th	49·4	36·1	43·0	+ 4·7	32	17	•	•	•		•		3	0·37	- 0·23	*0·8*	—	*13*	—	*Gordon Castle*
a Aberdeen	56	8th	21	7th	49·4	33·9	42·0	+ 2·9	21	23	•	•	•		43·8	+1·1	6	0·36	- 0·14	0·6	—	9	—	Nairn.
a Balmoral	55	8th	5	7th	48·6	32·4	40·8	+ 5·5	18	40	2	3	•		•		1	0·04	- 0·62	1·5	+ 0·2	22	+ 3	Aberdeen.
p Crieff	54	9th	23	7th	47·7	36·3	42·2	+ 4·0	25	16	•	•	•		•		1	0·06	- 0·69	•	•	•	•	Balmoral.
a Leith	53	8th	22	7th	50·1	39·3	44·9	+ 4·8	32	8	•	•	•		•		4	0·10	- 0·86	1·6	—	24	—	Balruddery.
p West Linton .. S	54	8th	16	7th	47·4	35·3	41·6	+ 3·9	15	29	•	•	•		•		1	0·03	- 0·40	•	•	•	•	
p Marchmont .. S	52	9th	25	7th	46·1	36·7	41·6	+ 3·9	11	23	•	•	•		•		6	0·19	—	*0·1*	—	*1*	—	*West Linton*
																	2	0·06	- 0·53	0·7	- 0·7	10	- 7	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	55	8th	20	7th	50·0	37·4	44·0	+ 4·4	33	13	3	21	39·4	+0·8	43·4	+1·8	2	0·05	- 0·60	1·7	—	24	—	Cockle Park.
a Shields	56	8th	25	7th	49·3	37·4	43·6	+ 3·5	31	13	•	•	•		•		1	0·01	- 0·43	•	•	•	•	
p Durham	54	9th	22	7th	47·4	37·0	42·4	+ 4·1	24	14	1	17	•		•		0	0·00	- 0·43	1·0	- 1·4	14	- 5	Durham.
a, North .. *p* Rounton	55	9th	21	7th	48·0	36·0	42·2	+ 3·9	27	17	4	21	40·6		•		2	0·02	- 0·40	•	•	•	•	Rounton.
a West Witton	*52*	*8th*	*19*	*7th*	*48·4*	*37·7*	*43·3*	—	*27*	*12*	1	14	41·6		•		*3*	*0·08*	—	•	•	•	•	*West Witton.*
p Scarborough	53	9th	32	7th	48·3	39·6	44·1	+ 3·9	25	7	•	•	•		46·9†		2	0·03	- 0·47	1·0	—	14	—	Scarborough.
p York	55	9th	25	7th	48·9	38·6	44·0	+ 4·5	28	10	•	•	42·9	+1·6	47·1	+2·3	0	0·00	- 0·43	0·3	- 0·5	4	- 8	York.
											1	21	40·9	+0·6	47·4	+2·2	—	—	—	*0·3*	—	*4*	—	*Hull.*
a Spurn Head	52	8, 9	33	7th	48·4	39·1	43·9	+ 3·3	25	8	•	•	•		•		1	0·01	- 0·40	*0·6*	—	*8*	—	*Spurn Head.*
b, South .. *a* Lincoln	54	9th	32	7th	49·6	39·3	44·7	+ 5·7	30	8	•	•	41·8	+1·3	47·3	+2·4	0	0·00	- 0·43	•	•	•	•	Lincoln.
a Fulbeck	53	12, 13	31	7th	50·3	38·9	44·8	+ 6·5	33	9	2	30	43·3	+1·9	48·0	+2·1	1	0·01	- 0·42	0·5	—	7	—	Rauceby.
											•	•	•		•		—	—	—	0·8	—	11	—	Skegness.
											1	28	42·1	+0·3	47·4	+1·7	—	—	—	*1·5*	—	*20*	—	*Lowestoft.*
3. ENGLAND, E.																								
p Cromer	53	8, 9	34	7th	48·7	40·0	44·5	+ 6·0	26	6	•	•	•		•		2	0·03	—	1·6	—	22	—	Cromer.
p Little Massingham ..	52	9th	32	7th	47·1	37·6	42·5	+ 3·8	22	12	2	23	•		•		1	0·01	- 0·53	1·2	—	16	—	Lit. Massingham
a, North .. *a* Yarmouth	53	8, 9, 12	30	7th	49·0	37·4	43·4	+ 3·5	29	13	•	•	42·4	+1·1	47·0	+1·1	1	0·01	- 0·49	1·5	—	20	—	Yarmouth.
a Norwich	54	9th	25	7th	49·1	37·1	43·3	+ 4·1	30	14	2	21	40·6		•		2	0·04	—	*1·5*	—	*20*	—	*Norwich.*
p Geldeston	54	12th	29	7th	48·9	38·3	43·8	+ 4·1	28	10	•	•	•		•		1	0·01	- 0·47	1·7	+ 0·1	22	+ 2	Geldeston.
p Cambridge	55	9th	37	7th	49·4	40·9	45·3	+ 6·1	28	3	0	31	44·2	+2·6	48·1	+2·3	1	0·04	- 0·33	1·0	- 0·3	13	- 4	Cambridge.
a Felixstowe	*54*	*9th*	*33*	*7th*	*49·6*	*39·9*	*44·9*	+ *4·3*	*29*	*6*	•	•	•		•		*3*	*0·05*	—	*1·4*	—	*18*	—	*Felixstowe.*
a Clacton-on-Sea ..	53	9, 12	38	7, 8	49·1	40·9	45·2	+ 4·9	27	3	0	32	45·1	+1·1	49·7	+1·9	1	0·01	—	1·3	—	17	—	Clacton.
b, South .. *a* Rothamsted	54	12th	36	7, 13	49·9	39·4	44·9	+ 5·7	31	7	•	•	•		•		2	0·06	- 0·49	0·8	- 0·6	10	- 8	Rothamsted.
a Shoeburyness	*55*	*9th*	*35*	*7th*	*50·7*	*41·1*	*46·1*	+ *5·2*	*32*	*3*	2	29	45·7	+2·5	•	•	*1*	*0·03*	- *0·31*	*1·0*	—	*13*	—	*Southend.*
p Tottenham	56	9th	38	7th	50·0	43·6	46·9	+ 6·9	34	0	0	36	•	•	50·6	+3·5	0	0·00	—	0·7	—	9	—	Tottenham.
											1	30	41·9	+1·9	46·7	+2·9	—	—	—	*0·3*	—	*4*	—	*Huddersfield.*
4. MIDLAND COUNTIES.																								
a Harrogate	54	8th	22	7th	48·4	37·3	43·1	+ 4·7	27	13	2	22	42·4	+1·7	44·9	+2·4	2	0·02	- 0·56	0·8	—	11	—	Harrogate.
a Bawtry	55	8th	27	7th	50·7	39·4	45·3	+ 6·4	34	7	2	25	43·1	•	46·3	•	0	0·00	- 0·43	0·0	- 1·1	0	-14	Worksop.
p Buxton	*49*	*8, 9*	*32*	*9th*	*45·1*	*36·4*	*40·9*	+ *4·0*	*9*	*23*	0	31	42·1	+2·3	47·0	+2·3	*5*	*0·44*	—	*0·2*	—	*3*	—	*Buxton.*
a, East .. *a* Nottingham ..	54	8, 9, 12	32	7th	50·0	39·9	45·2	+ 5·9	31	6	1	30	43·1	+2·9	46·1	+2·8	2	0·02	- 0·46	0·1	—	1	—	Nottingham.
p Birmingham, Edgbsn.	52	9, 12	36	7th	47·7	41·0	44·5	+ 5·3	22	3	1	30	44·3	+2·0	48·2	+1·9	2	0·09	- 0·44	0·5	—	7	—	Birmingham.
a Raunds	54	9, 12	33	7th	49·7	38·9	44·5	+ 5·6	31	9	1	29	44·6	•	49·8	•	0	0·00	—	•	•	•	•	Raunds.
p Oxford	53	8, 9, 12	37	7, 13	49·4	41·1	45·4	+ 5·4	28	3	1	28	•	•	•	•	1	0·01	- 0·46	1·1	- 0·3	14	- 3	Oxford.
											1	29	43·2	+2·7	47·1	+2·4	—	—	—	0·4	—	5	—	Sheffield.
a Cheadle	51	8th	32	7th	47·7	38·9	43·5	+ 5·3	24	9	0	32	•	•	•	•	2	0·13	- 0·52	•	•	•	•	Cheadle.
p Shrewsbury	55	8, 9	35	13th	50·7	40·0	45·6	+ 4·3	34	6	0	32	•	•	•	•	1	0·01	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	55	9th	35	13th	51·3	40·6	46·2	+ 6·5	35	4	1	26	•	•	•	•	2	0·04	- 0·49	•	•	•	•	Hereford.
a Cirencester	56	9th	33	13th	49·2	37·5	43·6	+ 4·8	30	13	1	29	44·5	•	48·4	•	3	0·04	- 0·56	1·1	- 0·2	14	- 3	Cirencester.
a Bath	55	8, 9	38	13th	51·9	41·0	46·7	+ 5·7	37	3	•	•	46·4	+2·6	50·2	+2·5	3	0·05	- 0·63	1·2	—	16	—	Bath.
											1	27	45·7	+2·3	50·5	+4·9	—	—	—	•	•	•	•	Canterbury.
5. ENGLAND, S.E.																								
p Kew	54	9, 12	37	7th	49·4	41·7	45·7	+ 5·2	27	1	2	28	45·1	+2·6	49·1	+2·6	2	0·04	- 0·41	0·9	- 0·3	12	- 4	Kew.
a Marlborough	52	8, 9	32	13th	50·0	39·0	44·7	+ 5·7	32	8	2	24	•	•	49·6	•	2	0·13	- 0·54	1·0	- 0·1	13	- 1	Marlborough.
a Margate	55	9th	40	8th	50·9	42·7	47·0	+ 5·6	35	0	0	32	47·7	+4·2	50·7	+5·0	1	0·01	- 0·46	0·8	- 0·7	10	- 9	Margate.
a Wisley, Surrey ..	54	9, 12	35	7th	50·7	40·0	45·6	+ 5·1	34	6	3	25	45·2	+2·6	48·6	+2·4	2	0·02	—	0·9	—	12	—	Wisley.
											0	33	46·4	+2·8	50·9	+3·3	—	—	—	1·0	—	13	—	Worthing.
p Salisbury (Wilton) ..	54	9, 12	35	13th	50·0	40·6	45·5	+ 5·8	30	4	1	29	46·4	•	•	•	3	0·07	- 0·70	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	53	9th	33	7th	50·7	39·0	45·1	+ 3·9	34	8	•	•	•	•	•	•	2	0·04	- 0·56	0·5	—	7	—	Littlestone.
p Hastings	53	9, 12	37	7, 11	49·3	41·4	45·5	+ 3·5	27	2	1	29	45·9	•	50·2	•	4	0·10	- 0·55	*1·0*	- *0·8*	*13*	- *11*	*Hastings.*
p Southampton	55	8, 9	38	13th	50·7	42·3	46·7	+ 4·6	33	0	•	•	•	•	•	•	2	0·07	- 0·60	1·0	- 0·6	13	- 7	Southampton.
a Ventnor	54	8, 9, 12	42	10, 11, 13	52·0	44·1	48·2	+ 3·9	43	0	•	•	•	•	•	•	3	0·08	- 0·59	1·1	- 0·5	14	- 6	Ventnor.
											0	34	48·2	+3·7	51·3	+3·1	—	—	—	*0·3*	—	*4*	—	*Portsmouth.*
											•	•	47·8	•	51·6	•	—	—	—	0·9	- 0·8	11	-10	Eastbourne.
											•	•	46·9	•	49·2	•	—	—	—	*1·1*	—	*14*	—	*Bournemouth.*
LONDON.															50·1	•	—	—	—	*0·8*	- *0·8*	*10*	-*11*	*Brighton.*
a Westminster	*55*	*9th*	*40*	*11, 13*	*51·1*	*42·4*	*46·9*	+ *6·3*	*34*	*0*	0	33	•	•	•	•	*1*	*0·04*	- *0·41*	*0·6*	+*0·2*	*8*	+ *2*	*Westminster.*
a Greenwich	*55*	*8, 9, 12*	*37*	*7th*	*51·3*	*41·0*	*46·4*	+ *6·2*	*35*	*3*	3	27	•	•	•	•	*1*	*0·03*	- *0·41*	*0·4*	- *0·7*	*5*	- *9*	*Greenwich.*
a Hampstead	*52*	*9, 12*	*33*	*11th*	*49·0*	*39·1*	*44·3*	—	*28*	*8*	4	21	•	•	•	•	*1*	*0·05*	—	*0·7*	•	*9*	—	*Hampstead.*
a Camden Square ..	*55*	*9, 12*	*37*	*7th*	*51·4*	*41·1*	*46·5*	—	*35*	*3*	0	33	•	•	•	•	*1*	*0·05*	—	*0·6*	•	*8*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	57	9th	30	7th	49·4	40·4	45·1	+ 4·6	28	4	•	•	•	•	•	•	7	1·31	+ 0·06	•	•	•	•	
p Glasgow	55	8, 9	31	7th	48 3	39·9	44·3	+ 4·2	25	6	1	26	•	•	•	•	6	0·46	- 0·44	0·5	0·0	7	0	Glasgow.
p Rothesay	56	8, 9	34	7th	49·4	40·7	45·2	+ 4·5	28	4	1	28	42·3	•	46·3	+2·3	7	1·01	- 0·09	*0·4*	—	*6*	—	*Rothesay.*
a Kilmarnock ..	55	8th	28	7th	49·9	40·4	45·3	+ 4·6	30	4	•	•	•	•	•	•	7	0·59	—	*0·4*	—	*6*	—	*Kilmarnock.*
a Colmonell ..	56	8th	33	7th	49·4	41·4	45·6	+ 4·2	28	2	0	32	•	•	•	•	7	0·73	- 0·43	•	•	•	•	
p Dumfries	55	9th	31	7th	48·1	39·7	44·1	+ 4·7	24	6	1	26	42·1	•	45·9	•	5	0·13	- 0·77	*0·8*	—	*11*	—	*Dumfries.*
p Cally, Gatehouse	52	8th	31	7th	46·9	39·6	43·4	+ 3·7	20	7	•	•	•	•	•	•	6	0·86	- 0·35	•	•	•	•	
b I. OF MAN.																								
p Douglas	52	8, 9	37	7th	49·6	42·7	46·3	+ 3·7	30	0	0	36	•	•	•	•	4	0·42	- 0·67	0·6	- 0·8	8	-11	Douglas.
											1	29	42·3	+2·3	46·7	+2·9	—	—	—	*0·0*	—	*0*	—	*Burnley.*
											0	31	•	•	•	•	—	—	—	0·4	—	5	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	52	9th	29	7th	47·0	38·9	43·1	+ 3·6	21	9	1	25	43·7	•	47·6	•	5	0·37	- 0·53	0·5	—	7	—	Aspatria.
p Newton Rigg	55	9th	27	7th	47·0	38·1	42·7	+ 4·7	21	11	3	19	42·4	+1·9	45·6	+2·5	5	0·18	- 0·68	0·3	- 0·8	4	-11	Newton Rigg.
p Stonyhurst	52	9th	34	7th	46·9	40·1	43·6	+ 4·0	19	5	2	27	•	•	•	•	5	0·71	- 0·29	0·2	- 0·7	3	-10	Stonyhurst.
p Blackpool	52	8, 9	36	7th	48·3	43·3	45·9	+ 5·4	27	0	0	35	45·4	•	49·1	•	5	0·37	- 0·28	0·4	- 0·5	6	- 7	Blackpool.
p Manchester (Whit. Pk.)	55	9th	36	13th	48·9	42·4	45·8	+ 5·7	27	0	•	•	•	•	•	•	3	0·26	- 0·40	*0·1*	- *0·3*	*1*	- *4*	*Whit. Park.*
a Liverpool (Bidston) ..	55	8th	36	7, 8	51·3	41·9	46·8	+ 5·7	34	0	•	•	•	•	•	•	4	0·32	- 0·21	*0·3*	•	*4*	—	*Liverpool.*
a Hawarden Bridge ..	57	8th	37	7th	52·0	43·6	48·0	+ 6·1	42	0	0	35	43·2	+3·1	48·1	+2·9	3	0·12	- 0·35	*0·5*	- *0·5*	*7*	- *7*	*Southport.*
											0	32	44·0	+3·0	49·4	+4·1	—	—	—	*0·1*	—	*1*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	54	8th	39	7th	50·1	43·7	47·0	+ 3·7	35	0	•	•	•	•	•	•	3	0·36	- 0·27	1·0	- 0·2	14	- 3	Llandudno.
a Holyhead	53	8, 12	42	7th	51·3	45·9	48·7	+ 5·0	47	0	•	•	•	•	•	•	4	0·19	- 0·69	*0·6*	—	*8*	—	*Holyhead.*
p Bettws-y-Coed ..	53	7, 8, 12	38	7th	51·7	42·0	47·0	+ 4·0	35	0	0	35	45·6	+3·6	47·9	+2·5	5	0·52	—	0·7	—	10	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	0·7	—	9	—	Aberdovey.

*, For notes see also opposite page. † At 3 feet.
‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.															**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				0·8	—	11	—	
a Llangammarch Wells	52	8, 9	36	13th	49·4	42·1	45·9	+ 6·9	27	0	0	31	45·6	+2·7	48·9	+2·0	5	0·40	—	0·6	—	8	—	Aberystwyth.
a Pembroke	54	9th	46	13th	52·1	47·9	50·1	+ 5·0	57	0	•	•	•	•	•	•	5	0·27	− 0·63	0·7	− 0·8	9	−10	Pembroke.[Wells
p Cardiff	52	8, 9, 12	38	13th	49·6	42·3	46·1	+ 5·8	29	0	0	31	46·1	+3·7	49·5	+3·3	4	0·18	− 0·83	*1·4*	—	*18*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	54	9th	38	13th	50·9	42·6	46·9	+ 5·2	34	0	0	31	•	•	•	•	3	0·10	− 0·67	*1·1*	—	*14*	—	*Clifton.*
a Shaftesbury											•	•	•	•	•	•	—	—	—	•	•	•	•	Shaftesbury.
a Arlington	52	8, 9	39	13th	49·7	42·6	46·3	+ 4·8	30	0	•	•	•	•	•	•	5	0·83	− 0·54	•	•	•	•	Arlington.
a Newquay	*53*	*8, 9*	*46*	*8, 12*	*51·6*	*47·7*	*49·7*	+ *3·9*	*54*	*0*	•	•	50·1	•	•	•	*4*	*0·20*	− *0·68*	1·0	− 0·7	13	− 9	Newquay.
a Cullompton	54	9, 12	35	13th	51·3	42·7	47·2	+ 5·7	36	0	1	28	47·9	•	•	•	5	0·10	− 0·75	0·8	− 0·5	10	− 6	Cullompton.
a Portland	54	8, 9, 12	43	7th	51·7	45·4	48·7	+ 4·6	47	0	•	•	•	•	•	•	4	0·16	—	*1·2*	—	*15*	—	*Weymouth.*
p Plymouth	54	8, 9	40	13th	51·9	46·0	49·1	+ 4·8	50	0	0	34	49·3	+3·9	•	•	4	0·20	− 0·78	0·7	− 0·9	9	−12	Plymouth.
a Falmouth	54	8, 9	42	13th	52·4	45·7	49·2	+ 3·7	50	0	0	32	•	•	•	•	5	0·30	− 1·00	1·2	− 0·6	15	− 8	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	55	8th	39	7th	49·4	43·9	46·8	+ 4·2	34	0	•	•	•	•	•	•	7	0·48	− 0·25	•	•	•	•	• •
a Blacksod Point ..	53	8th	39	13th	50·6	44·7	47·8	+ 3·7	41	0	•	•	•	•	•	•	7	0·42	− 0·88	•	•	•	•	• •
p Markree Castle ..	55	8th	36	12, 13	51·1	41·4	46·4	+ 5·5	33	2	1	28	46·4	•	49·0	•	5	0·43	− 0·59	0·7	− 0·5	10	− 7	Markree Castle.
a Birr Castle ..	57	8th	34	13th	49·9	42·9	46·5	+ 5·4	32	0	•	•	•	•	•	•	4	0·20	− 0·51	*0·8*	− *0·7*	*11*	− *10*	*Birr Castle.*
b, East .. { *p* Armagh	54	8th	35	13th	49·4	41·0	45·4	+ 4·8	28	3	0	33	45·4	+3·8	48·0	+2·6	4	0·17	− 0·48	0·5	− 0·8	7	−11	Armagh.
a Donaghadee	56	8th	35	13th	49·4	43·0	46·3	+ 4·2	30	0	•	•	•	•	•	•	4	0·28	− 0·42	•	•	•	•	• •
											0	31	46·7	+4·1	48·5	+2·7	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											1	29	•	•	•	•	—	—	—	0·8	− 0·9	11	−13	Phœnix Park.
a, East .. { *p* Dublin, City	57	8th	37	13th	51·1	42·9	47·2	+ 4·1	36	0	0	35	•	•	•	•	4	0·13	− 0·36	•	•	•	•	Dublin City.
a Kilkenny	55	8th	30	13th	50·3	42·6	46·6	+ 5·4	32	0	•	•	•	•	•	•	6	0·14	− 0·60	•	•	•	•	• •
a Waterford ..	53	11th	34	13th	50·1	43·4	46·9	+ 4·3	34	0	•	•	•	•	•	•	4	0·18	− 0·78	•	•	•	•	• •
a Carrick-on-Suir ..	*55*	*8, 9*	*36*	*13th*	*50·7*	*41·1*	*46·1*	—	*32*	*3*	0	32	•	•	•	•	*4*	*0·16*	—	*1·8*	—	*24*	—	*Carrick-on-Suir.*
b, West .. { *a* Birr Castle	57	8th	34	13th	49·9	42·9	46·5	+ 5·4	32	0	•	•	•	•	•	•	4	0·20	− 0·51	0·8	− 0·7	11	−10	Birr Castle.
a Foynes	57	7th	36	11th	51·1	41·6	46·5	+ 3·1	33	1	•	•	•	•	•	•	7	0·43	− 0·57	•	•	•	•	• •
a Cahir	53	8th	33	13th	49·1	42·3	45·8	+ 2·8	27	0	•	•	•	•	•	•	5	0·31	—	•	•	•	•	• •
a Killarney	56	8th	35	13th	51·3	43·9	47·8	+ 3·9	41	0	•	•	•	•	•	•	4	0·24	− 1·35	•	•	•	•	• •
a Valencia	54	8th	37	13th	51·3	45·7	48·6	+ 2·6	46	0	•	•	•	•	•	•	6	0·53	− 0·91	0·6	− 0·8	8	−11	Valencia.
a Roche's Point	53	9, 11	40	13th	50·7	45·7	48·3	+ 3·2	44	0	•	•	•	•	•	•	5	0·20	− 0·99	°	—	°	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	55	9th	45	11, 12	52·9	47·0	50·1	+ 2·0	57	0	•	•	•	•	•	•	6	0·14	− 0·76	1·1	− 0·6	14	− 8	Scilly.
a Jersey, St. Aubins ..	56	9th	46	8th	53·3	47·6	50·6	+ 5·4	60	0	°	•	•	•	•	•	3	0·12	− 0·78	1·0	− 1·1	13	−13	St. Heliers.
a Guernsey (Villa Carey)	54	9th	44	8th	52·3	47·1	49·8	+ 3·9	55	0	0	38	49·8	+3·2	52·0	+2·2	4	0·21	− 0·77	1·1	− 0·4	14	− 4	Guernsey.*

Additional Sunshine Means:—*Bognor, 1·1 hrs. 14 %; Ramsgate, 1·1 hrs. 14 %; Rhyl, 1·9 hrs. 16 %; Salcombe, 0·9 hrs. 11 %; Tenby, 1·0 hrs. (−0·5) 13 % (−7); Torquay, 0·9 hrs. (−0·8) 11 % (−11).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, December 13th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	46	45	45·6	+0·4	SCOTLAND, W. ..	{ Lamlash	48	45	47·7	+0·1
	{ Kirkwall	45	40	42·8	−0·1	ENGLAND, N.W. ..	{ Ballantrae	46	43	44·7	+0·1
	{ Wick	48	47	47·5	+1·1		{ Port Erin	50	48	49·4	+0·5
SCOTLAND, E. ..	{ Cromarty	46	38	43·3	+1·3	ENGLAND, S.W. ..	{ Newquay	52	52	52·0	+4·1
	{ Pennan Bay	47	44	45·5	+2·6		{ Scilly	51	49	50·2	—
	{ Aberdeen, Cove Bay	45	45	45·0	+1·1		{ Plymouth‡	53	52	52·6	+3·1
ENGLAND, N.E. ..	{ Burnmouth, Berwick	46	44	45·4	+2·2		{ Salcombe	52	49	50·7	+1·3
	{ Scarborough	45	40	43·0	−1·2	IRELAND, N.W. ..	{ Sheephaven	48	46	47·3	+1·0
ENGLAND, E. ..	Shipwash Lightship	49	47	48·3	+2·9		{ Teelin	51	46	48·7	+3·6
ENGLAND, S.E. ..	Eastbourne‡	50	48	48·9	+1·8	IRELAND, S.W. ..	{ Cleggan	50	49	49·6	+4·5
							{ Seafield	51	50	50·1	+2·7

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The rainfall is measured at the hour of the morning observations and entered to the preceding day.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIFTIETH WEEK—December 7th to December 13th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	57	17	48·6	38·4	43·7	+ 4·7	27	+ 18	10	−19	6	0	1·61	+0·19	0·3	−0·3	4	− 5
Eastern.																		
1. SCOTLAND, EAST ...	59	5	48·7	35·9	42·5	+ 4·6	29	+ 21	17	−21	3	− 2	0·15	−0·53	1·2	+0·2	18	+ 3
2. ENGLAND, N.E.	56	20	48·9	38·1	43·7	+ 4·5	28	+ 19	11	−19	1	− 2	0·01	−0·57	0·9	−0·4	12	− 5
3. ENGLAND, EAST ...	56	25	49·0	39·5	44·4	+ 5·4	27	+ 17	7	−27	1	− 3	0·02	−0·44	1·2	−0·2	16	− 3
4 MIDLAND COUNTIES ...	55	22	49·7	39·6	44·9	+ 6·1	30	+ 19	7	−29	2	− 2	0·04	−0·50	0·7	−0·5	9	− 7
5. ENGLAND, S.E.	55	32	50·4	41·2	46·0	+ 1·9	31	+ 14	2	−21	2	− 2	0·06	−0·54	0·9	−0·6	12	− 7
Western.																		
6. SCOTLAND, WEST ...	57	28	48·9	40·6	44·9	+ 4·1	26	+ 13	4	−18	6	+ 1	0·69	−0·56	0·6	−0·4	8	− 6
7. ENGLAND, N.W.	57	27	49·5	42·0	45·9	+ 5·3	27	+ 14	0	−24	4	− 1	0·34	−0·45	0·5	−0·5	7	− 7
8. ENGLAND, S.W.	54	35	51·0	44·1	47·7	+ 5·1	40	+ 19	0	−16	4	− 1	0·28	−0·78	0·8	−0·6	11	− 8
9. IRELAND, NORTH ...	57	34	50·0	42·8	46·5	+ 5·4	32	+ 18	0	−22	5	0	0·33	−0·55	0·6	−0·7	8	− 9
10. IRELAND, SOUTH ...	57	30	50·5	43·4	47·1	+ 4·1	36	+ 13	0	−16	5	0	0·26	−0·77	0·7	−0·8	10	−11
11. ENGLISH CHANNEL ...	56	44	52·8	47·2	50·2	+ 3·2	57	+ 23	0	− 4	4	− 1	0·16	−0·77	1·1	−0·8	13	−10

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 2 Weeks, November 30th to December 13th, 1913.

0. SCOTLAND, NORTH ...	57	14	*	*	*	*	27	+ 8	45	−12	12	+ 1	3·79	+0·83	0·4	−0·3	6	− 4
Eastern.																		
1. SCOTLAND, EAST ...	59	5	*	*	*	*	31	+ 14	52	−20	7	− 3	1·30	−0·16	1·6	+0·5	23	+ 8
2. ENGLAND, N.E.	56	17	*	*	*	*	39	+ 19	24	−32	3	− 4	0·17	−0·96	1·2	−0·1	16	− 2
3. ENGLAND, EAST ...	57	25	*	*	*	*	54	+ 31	14	−50	5	− 4	0·30	−0·70	1·4	0·0	18	− 1
4. MIDLAND COUNTIES ...	58	21	*	*	*	*	54	+ 30	13	−54	7	− 1	0·73	−0·41	0·7	−0·5	10	− 7
5. ENGLAND, S.E.	58	33	*	*	*	*	70	+ 34	2	−42	7	− 2	0·70	−0·61	0·8	−0·7	11	− 8
Western.																		
6. SCOTLAND, WEST ...	57	26	*	*	*	*	34	+ 6	25	−16	12	+ 2	2·50	−0·10	0·8	−0·2	11	− 4
7. ENGLAND, N.W.	57	18	*	*	*	*	51	+ 23	5	−38	9	− 1	1·67	−0·02	0·7	−0·4	10	− 4
8. ENGLAND, S.W.	56	34	*	*	*	*	81	+ 36	0	−31	10	0	1·81	−0·41	0·7	−0·8	9	−11
9. IRELAND, NORTH ...	57	32	*	*	*	*	58	+ 29	7	−35	11	0	2·12	+0·33	0·6	−0·7	8	−10
10. IRELAND, SOUTH ...	57	30	*	*	*	*	71	+ 23	0	−31	11	+ 1	1·90	−0·14	0·6	−1·0	8	−12
11. ENGLISH CHANNEL ...	56	37	*	*	*	*	112	+ 41	0	− 7	10	0	1·89	−0·10	0·7	−1·2	9	−14

THE YEAR.—Aggregates, &c., for the Period of 50 Weeks, December 29th, 1912, to December 13th, 1913.

0. SCOTLAND, NORTH ...	78	14	*	*	*	*	2,225	+128	505	−226	221	−16	47·77	−2·20	2·9	−0·2	23	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	5	*	*	*	*	2,387	+ 47	710	−134	185	−11	25·34	−4·25	3·4	−0·4	28	− 3
2. ENGLAND, N.E.	82	17	*	*	*	*	2,844	+218	450	−166	172	− 5	21·07	−2·81	3·6	−0·5	29	− 4
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,306	+275	331	−354	167	− 5	20·62	−2·16	4·0	−0·5	32	− 4
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	3,153	+209	438	−280	171	+ 1	25·78	+0·52	3·3	−0·7	27	− 5
5. ENGLAND, S.E.	84	22	*	*	*	*	3,504	+201	229	−263	163	− 2	26·05	+0·14	4·1	−0·4	33	− 4
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,674	+112	364	−184	206	+ 1	40·95	−5·01	3·4	−0·5	28	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	2,989	+186	308	−183	195	+ 5	33·33	−0·13	3·7	−0·2	30	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	3,363	+205	223	−160	195	+ 6	38·15	+1·35	3·9	−0·5	32	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,780	+102	326	−132	224	+ 1	37·69	+1·03	3·4	−0·2	27	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	3,206	+ 97	265	− 85	228	+29	43·53	+5·41	3·7	−0·4	30	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,933	+199	38	− 82	193	− 9	30·34	−0·81	4·6	−0·8	37	− 6

M.O., December 17, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) No. 51. FIFTY-FIRST WEEK, SUNDAY, DECEMBER 14TH, TO SATURDAY, DECEMBER 20TH, 1913.

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I.—General Remarks.

Weather. On the whole the conditions were dry, although the sky was generally very cloudy or overcast except in the south and south-west of England and in South Wales. Rain was experienced early in the week in the north and north-west, and slight falls occurred in most other districts, while as the period drew towards its close a little drizzle fell in the north-east and east of England.

Temperature exceeded the average except at a few stations in the South-West. In the North the excess was more than 5° at many stations and reached 8° at Strathpeffer. In the early days of the week the thermometer was above 50° in many places, 52° or 53° at a number of stations, 56° at Hereford on the 15th. At this time the night minima also were high, 47° and 48° in numerous localities. Towards the close there was a decrease of temperature, and frost was experiened in a few neighbourhoods, the shade minimum sinking to 19° at Cambridge and Wilton (Salisbury), and 22° at West Linton. On the grass there were readings as low as 19° at Marlborough, 17° at Wisley, and 16° at Billingshurst (Sussex).

Mean Temperature of the Sea. At Scilly, Plymouth, and Seafield the water was colder than during the corresponding week of last year, the difference being rather more than 6° at Burnmouth. The mean for the week ranged from above 51° at Newquay and Plymouth to 45° at Ballantrae, Kirkwall, Cromarty, and Aberdeen, and to 44° at Scarborough. At all stations except Scarborough the temperature was above the average.

Rainfall was less than the average in all districts, the deficiency ranging from ¼ in. in England East to about ¾ in. in England South-West and the English Channel, and nearly an inch in Scotland West and Ireland South. At a few places the week was rainless.

Bright Sunshine was below the normal except in England South-East and South-West, where the excess was nearly an hour per day. In Ireland the deficiency was ¾ hour per day.

Barometer and Wind. During the early days of the week pressure was highest to the southward of these Islands, and the wind Westerly, but on a depression moving from Shetland to Denmark on the 16th, the anticyclone extended over the south-western parts of the United Kingdom, and finally became centred over the north of England and the adjacent portions of Ireland and Scotland. In the rear of the depression the wind blew a gale from West or North-West on our north-western, northern, and north-eastern coasts, but subsequently fell to a light or moderate breeze—from West or South-West in the north, and from East or North-East in the south.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 203.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Light	Light	Light	Light	Light	Light	Very light	Very light	Very light	Very light	Very light
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Abundant	Scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 3 weeks from Nov. 30th, 1913.	Warmth ...	2 * 1	2 * 0	2 * 0	3 * 0	3 * 0	2 * 0	1 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0
	Rainfall ...	1 * 0	1 * 2	0 * 3	0 * 3	0 * 2	0 * 2	1 * 2	1 * 2	1 * 2	1 * 2	1 * 2	1 * 2
	Sunshine ...	0 * 0	1 * 0	0 * 0	0 * 0	0 * 2	1 * 2	0 * 1	0 * 0	1 * 2	0 * 3	0 * 3	0 * 2

PAST SEASONS.

WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9
AUTUMN, 1913. Aug. 31st–Nov. 29th. 13 weeks.	Warmth ...	6 * 0	8 * 0	8 * 0	10 * 0	11 * 0	11 * 0	6 * 0	9 * 0	9 * 0	8 * 0	9 * 2	11 * 0
	Rainfall ...	4 * 4	2 * 4	4 * 6	5 * 6	5 * 4	5 * 5	2 * 4	4 * 6	3 * 5	3 * 2	7 * 1	4 * 3
	Sunshine ...	5 * 4	5 * 6	6 * 3	4 * 1	4 * 3	5 * 2	1 * 4	6 * 3	4 * 6	2 * 5	2 * 6	2 * 4

(33136—24.) Wt. 196—786. 450 12/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
0. SCOTLAND, N.	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
p Baltasound .. S	*49*	*15th*	*33*	*14th*	*46·6*	*38·9*	*42·9*	—	*19*	*9*	•	•	41·8	•	•	•								
a Islands .. *a* Lerwick ..	49	15, 20	33	14, 15	48·0	39·7	44·0	+ 3·8	24	6	•	•	•	•	•	•	*7*	*1·02*	—	*0·0*	—	*0*	—	*Baltasound.*
a Stornoway ..	51	14th	41	14, 17	48·1	43·1	45·7	+ 5·9	26	0	•	•	•	•	•	•	7	1·18	—	0·1	- 0·7	2	-12	Deerness.
a Castlebay, Barra Isd.‡ ..	*51*	*14, 15*	*44*	*17, 18*	*49·1*	*45·6*	*47·4*	—	*38*	*0*	•	•	•	•	•	•	4	0·72	- 0·73	0·1	- 0·7	2	-11	Stornoway.
																	4	*0·57*	—	*0·0*	—	*0*	—	*Castlebay.*
a Wick	50	14th	34	19th	46·7	37·4	42·2	+ 3·2	21	13	•	•	•	•	•	•	3	0·22	- 0·45	•	•	•	•	
b, Main- *p* Strathpeffer ..	52	15th	37	18th	48·7	41·4	45·2	+ 8·1	25	2	•	•	•	•	•	•	3	0·60	- 0·18	0·6	- 0·4	9	- 6	Strathpeffer.
land. *p* Glencarron ..											•	•	•	•	•	•	—	—	—	•	•	•	•	
p Fort Augustus..	51	16th	34	17th	46·9	41·0	44·1	+ 5·7	18	3	•	•	•	•	•	•	2	1·02	- 0·28	0·1	- 0·2	2	- 4	Fort Augustus.
p Fort William ..	52	15th	38	17th	47·1	41·0	44·2	+ 4·2	20	3	•	•	•	•	•	•	5	1·70	- 0·56	•	•	•	•	
1. SCOTLAND, E.											3													
p Gordon Castle.. S											8	17	38·7	+0·3	42·0	+1·4	—	—	—	0·9	—	14	—	Crathes S.
a Nairn	51	14, 15	35	16th	47·7	39·0	43·5	+ 6·0	23	8	•	•	•	•	•	•	—	—	—	•	•	•	•	*Gordon Castle*
a Aberdeen ..	52	15th	29	19th	45·3	37·1	41·4	+ 3·3	9	21	•	•	•	•	•	•	3	0·31	- 0·19	0·1	—	2	—	Nairn.
a Balmoral ..	52	15th	29	19th	45·3	37·1	41·4	+ 3·3	9	21	•	•	•	•	43·2	+0·9	3	0·24	- 0·41	0·9	- 0·3	14	- 5	Aberdeen.
p Crieff	50	14th	21	19th	43·6	30·6	37·4	+ 2·6	4	43	4	18	•	•	•	•	2	0·80	+ 0·08	•	•	•	•	Balmoral.
a Leith	50	15th	32	20th	45·6	37·7	41·8	+ 4·2	10	19	•	•	•	•	•	•	1	0·14	- 0·80	1·8	—	27	—	Balruddery.
p West Linton .. S	53	15th	30	18th	47·7	38·9	43·5	+ 4·0	24	9	•	•	•	•	•	•	1	0·06	- 0·36	•	•	•	•	
p Marchmont .. S	49	14, 15	22	20th	44·4	31·1	38·0	+ 1·3	7	42	•	•	•	•	•	•	2	0·24	—	*0·6*	—	*9*	—	*West Linton*
											•	•	•	•	•	•	—	—	—	•	•	•	•	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	53	15th	35	20th	47·1	39·9	43·6	+ 4·9	20	6	0	34	41·0	+2·8	43·7	+2·3	2	0·06	- 0·57	0·4	—	6	—	Cockle Park.
a Shields	52	15, 16	38	20th	47·1	41·7	44·5	+ 5·2	19	1	•	•	•	•	•	•	1	0·04	- 0·40	•	•	•	•	
p Durham	50	15th	36	20th	45·3	41·1	43·3	+ 5·6	13	3	0	35	•	•	•	•	0	0·00	- 0·40	0·6	- 0·7	9	-10	Durham.
a, North .. *p* Rounton	52	15th	36	20th	45·7	40·9	43·4	+ 5·8	14	3	1	30	42·0	•	•	•	3	0·04	- 0·38	•	•	•	•	Rounton.
a West Witton	*49*	*14, 15*	*36*	*20th*	*44·1*	*39·3*	*41·8*	—	*6*	*12*	0	34	42·3	•	44·7	•	2	*0·04*	—	•	•	•	•	*West Witton.*
p Scarborough	53	15th	38	14th	47·7	41·6	44·8	+ 5·2	21	1	•	•	•	•	45·6†	•	2	0·09	- 0·41	0·8	—	11	—	Scarborough.
p York	52	15th	38	14th	46·6	41·9	44·3	+ 6·1	17	0	•	•	43·8	+2·7	46·5	+2·2	2	0·14	- 0·28	0·6	- 0·2	9	- 3	York.
											•	•	•	•	•	•	•	—	—	•	•	•	•	*Hull.*
a Spurn Head	49	15, 16	40	14, 19	47·3	41·7	44·6	+ 4·9	19	1	•	•	•	•	•	•	3	0·13	- 0·27	*0·5*	—	*7*	—	*Spurn Head.*
b, South .. *a* Lincoln	51	15th	36	14th	46·7	40·4	43·7	+ 5·8	19	4	•	•	42·2	+1·6	46·6	+2·1	1	0·05	- 0·37	•	•	•	•	Lincoln.
a Fulbeck	52	15th	36	14th	46·4	39·4	43·0	+ 5·3	18	7	1	30	43·4	+2·5	47·3	+2·0	3	0·07	- 0·38	0·5	—	7	—	Rauceby.
											•	•	•	•	•	•	—	—	—	1·1	—	15	—	Skegness.
3. ENGLAND, E.											1	28	42·3	+1·0	46·6	+1·5	—	—	—	*1·9*	—	*26*	—	*Lowestoft.*
p Cromer	50	15th	38	14th	47·0	40·6	43·9	+ 6·5	19	4	•	•	•	•	•	•	5	0·03	—	0·8	—	11	—	Cromer.
p Little Massingham ..	50	16th	33	18th	45·7	37·3	41·7	+ 4·2	10	20	2	27	•	•	•	•	4	0·09	- 0·45	0·6	- 0·7	8	-10	Lit. Massingham
a, North .. *a* Yarmouth ..	51	15th	36	19th	46·6	39·6	43·2	+ 4·9	18	7	•	•	43·1	+2·3	47·0	+1·7	3	0·09	- 0·39	1·8	—	24	—	Yarmouth.
a Norwich	51	15th	29	19th	46·3	37·7	42·2	+ 4·0	19	12	2	23	41·2	•	•	•	4	0·17	—	*1·1*	—	*15*	—	*Norwich.*
p Geldeston	52	15th	30	19th	47·4	38·0	42·9	+ 4·7	23	11	•	•	•	•	•	•	4	0·16	- 0·30	1·6	+ 0·1	22	+ 1	Geldeston.
p Cambridge	51	15th	25	19th	46·0	37·0	41·7	+ 3·8	11	22	3	24	42·7	+1·4	47·6	+2·2	3	0·17	- 0·17	0·9	- 0·4	12	- 5	Cambridge.
a Felixstowe ..	*50*	*15th*	*33*	*19th*	*46·4*	*39·0*	*42·9*	+ *3·7*	*19*	*8*	•	•	•	•	•	•	*3*	*0·08*	—	*1·9*	—	*25*	—	*Felixstowe.*
a Clacton-on-Sea ..	49	15th	35	19, 20	45·6	38·7	42·3	+ 3·4	16	9	1	29	44·1	+0·6	4·88	+1·5	1	0·02	—	1·5	—	20	—	Clacton.
b, South .. *a* Rothamsted ..	51	15th	30	19th	45·3	37·1	41·4	+ 3·6	9	21	•	•	•	•	•	•	3	0·10	- 0·43	1·3	0·0	17	0	Rothamsted.
a Shoeburyness ..	*48*	*14th*	*34*	*19th*	*46·9*	*40·4*	*43·8*	+ *4·7*	*19*	*4*	4	27	44·4	•	•	•	*2*	*0·03*	- *0·30*	*2·2*	—	*29*	—	*Southend.*
p Tottenham	52	15th	32	19th	46·0	39·7	43·0	+ 3·8	17	6	1	29	•	•	49·6	+2·9	0	0·00	—	1·1	—	15	—	Tottenham.
4. MIDLAND COUNTIES.											0	31	42·6	+2·6	46·2	+2·9	—	—	—	*0·0*	—	*0*	—	*Huddersfield.*
a Harrogate	49	15th	37	20th	44·0	39·4	41·8	+ 4·1	6	11	0	35	43·0	+2·2	44·9	+2·7	2	0·03	- 0·55	0·5	—	7	—	Harrogate.
a Bawtry	52	15th	38	19, 20	46·1	41·7	44·0	+ 5·8	15	1	0	32	43·0	•	45·9	•	1	0·02	- 0·40	0·1	- 0·9	1	-12	Worksop.
p Buxton	*49*	*15th*	*35*	*20th*	*42·0*	*37·6*	*39·9*	+ *3·7*	*0*	*15*	0	31	42·1	+2·4	46·3	+2·1	*3*	*0·14*	*1·04*	*0·2*	—	*3*	—	*Buxton.*
a, East .. *a* Nottingham ..	53	15th	36	14th	46·9	39·6	43·4	+ 4·8	20	7	0	35	42·5	+2·4	45·7	+2·7	2	0·05	- 0·43	0·2	—	3	—	Nottingham.
p Birmingham, Edgbsn.	51	15th	37	19th	45·1	39·3	42·3	+ 4·0	13	8	1	29	43·6	+1·3	48·0	+2·0	0	0·00	- 0·50	0·4	—	5	—	Birmingham.
a Raunds	53	15th	30	19th	46·1	36·9	41·7	+ 3·5	11	22	2	21	43·9	•	49·2	•	3	0·12	—	•	•	•	•	Raunds.
p Oxford	50	15th	30	19th	45·6	37·4	41·7	+ 2·4	10	20	5	26	•	•	•	•	3	0·08	- 0·37	2·0	+ 0·7	26	+ 9	Oxford.
											0	37	43·2	+2·8	46·6	+2·3	—	—	—	0·3	—	4	—	Sheffield.
a Cheadle	51	15th	36	14, 17	44·4	37·6	41·1	+ 3·7	7	18	1	30	•	•	•	•	1	0·03	- 0·62	•	•	•	•	Cheadle.
p Shrewsbury	53	15th	36	19th	47·6	39·6	43·8	+ 3·4	23	7	0	31	•	•	•	•	1	0·01	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	56	15th	30	19th	46·9	35·4	41·4	+ 2·5	14	28	5	21	•	•	•	•	1	0·01	- 0·50	•	•	•	•	Hereford.
a Cirencester	50	15th	31	19th	46·1	35·5	41·0	+ 2·8	11	27	3	27	43·8	•	47·8	•	1	0·02	- 0·57	1·4	+ 0·2	18	+ 2	Cirencester.
a Bath	53	15th	31	19, 20	47·0	36·1	41·8	+ 1·6	14	26	•	•	44·1	+0·5	49·5	+2·3	1	0·02	- 0·66	1·7	—	*22*	—	Bath.
5. ENGLAND, S.E.											2	21	43·5	+0·3	49·9	+3·8	—	—	—	•	•	•	•	Canterbury.
p Kew	50	15th	33	19th	45·9	39·0	42·6	+ 3·1	17	8	3	20	43·2	+0·7	48·4	+2·2	1	0·01	- 0·42	1·3	+ 0·1	17	+ 1	Kew.
a Marlborough	49	15th	30	20th	44·1	35·0	39·7	+ 1·5	6	27	6	19	•	•	49·0	•	1	0·01	- 0·65	1·6	+ 0·5	21	+ 6	Marlborough.
a Margate	52	15th	37	14th	47·3	40·1	43·8	+ 3·5	21	5	0	34	46·6	+3·3	50·1	+4·7	1	0·12	- 0·34	2·3	+ 0·8	30	+11	Margate.
a Wisley, Surrey ..	50	15th	27	19th	46·3	36·4	41·0	+ 1·4	9	23	4	17	42·8	+0·6	47·8	+1·9	1	0·02	—	1·7	—	22	—	Wisley.
											3	28	43·1	-0·2	50·0	+2·8	—	—	—	3·1	—	40	—	Worthing.
p Salisbury (Wilton) ..	51	15th	25	20th	45·1	33·6	39·6	+ 0·9	9	33	5	20	43·9	•	•	•	2	0·03	- 0·73	•	•	•	•	Salisbury.
a Tunbridge Wells ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
a Dungeness	52	15th	36	14th	47·1	40·4	43·9	+ 2·9	20	4	•	•	•	•	•	•	1	0·09	- 0·40	3·2	—	42	—	Littlestone.
p Hastings.. ..											•	•	•	•	•	•	—	—	—	•	•	•	•	*Hastings.*
p Southampton	52	15th	31	19th	46·4	37·7	42·2	+ 1·0	19	12	3	23	•	•	•	•	0	0·00	- 0·66	2·2	+ 0·7	29	+ 9	Southampton.
a Ventnor	52	15th	37	19, 20	47·1	41·0	44·2	+ 0·8	20	3	•	•	•	•	•	•	2	0·07	- 0·55	2·8	+ 1·2	36	+16	Ventnor.
											2	24	45·7	+1·2	50·6	+2·8	—	—	—	*2·2*	—	*29*	—	*Portsmouth.*
											•	•	46·0	•	50·8	•	—	—	—	2·9	+ 1·2	38	+16	Eastbourne.
											•	•	43·9	•	48·3	•	—	—	—	*2·6*	—	*34*	—	*Bournemouth.*
LONDON.											2	27	•	•	49·0	•	—	—	—	*3·0*	+ *1·4*	*39*	+19	*Brighton.*
a Westminster	*51*	*15th*	*34*	*19th*	*47·1*	*40·1*	*43·7*	+ *3·8*	*20*	*5*	1	29	•	•	•	•	*1*	*0·01*	- *0·42*	*0·7*	+ *0·3*	*9*	+ *4*	*Westminster.*
a Greenwich	*51*	*15th*	*32*	*19th*	*46·3*	*39·1*	*42·8*	+ *3·2*	*18*	*8*	3	22	•	•	•	•	*0*	*0·00*	- *0·42*	*1·1*	*0·0*	*15*	*0*	*Greenwich.*
a Hampstead	*49*	*15th*	*32*	*19th*	*44·3*	*36·6*	*40·6*	—	*6*	*22*	6	20	•	•	•	•	*2*	*0·02*	—	*1·6*	—	*21*	—	*Hampstead.*
a Camden Square ..	*51*	*15th*	*30*	*19th*	*46·4*	*38·0*	*42·4*	—	*20*	*11*	2	27	•	•	•	•	*0*	*0·00*	—	*1·1*	•	*15*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	50	14, 15	37	20th	46·3	40·4	43·5	+ 3·7	17	4	•	•	•	•	•	•	4	0·74	- 0·51	•	•	•	•	
p Glasgow	51	15th	34	17th	46·1	40·4	43·4	+ 4·1	17	4	3	25	•	•	•	•	2	0·23	- 0·67	0·1	- 0·4	2	- 6	Glasgow.
p Rothesay .. S	51	14, 15	37	17th	47·1	41·9	44·6	+ 4·4	19	0	0	31	43·9	•	46·0	+2·1	3	0·44	- 0·67	*0·1*	—	*2*	—	*Rothesay.*
a Kilmarnock ..	52	15th	30	17th	45·9	38·0	42·1	+ 1·9	18	11	•	•	•	•	•	•	3	0·34	—	*0·2*	—	*3*	—	*Kilmarnock.*
a Colmonell ..	52	15th	36	18th	46·1	39·9	43·1	+ 1·8	17	6	0	32	•	•	•	•	2	0·11	- 1·04	•	•	•	•	
p Dumfries ..	50	15th	32	17th	44·9	39·0	42·1	+ 3·4	13	8	2	28	42·4	•	45·6	•	1	0·07	- 0·80	*0·8*	—	*11*	—	*Dumfries.*
p Cally, Gatehouse	51	15th	30	17th	45·4	38·6	42·1	+ 3·2	15	10	•	•	•	•	•	•	2	0·16	- 1·04	•	•	•	•	
b, I. OF MAN.																								
p Douglas	50	14-16	38	17th	46·9	41·6	44·4	+ 2·5	18	1	0	31	•	•	•	•	1	0·05	- 1·03	1·2	- 0·1	17	- 1	Douglas.
											0	31	42·4	+2·3	46·1	+2·7	—	—	—	*0·0*	—	*0*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											•	•	•	•	•	•	—	—	—	0·9	—	12	—	Hoylake.
p Aspatria	49	15th	31	17th	44·7	38·6	41·8	+ 3·1	8	15	1	23	43·7	•	47·1	•	2	0·16	- 0·71	0·3	—	4	—	Aspatria.
p Newton Rigg ..	50	16th	36	20th	43·9	39·4	41·7	+ 4·7	5	11	1	28	43·0	+2·6	45·1	+2·5	2	0·08	- 0·78	0·0	- 1·0	0	-15	Newton Rigg.
p Stonyhurst	49	15th	38	19, 20	45·3	41·1	43·3	+ 4·8	13	3	1	29	•	•	•	•	3	0·30	- 0·70	0·2	- 0·6	3	- 9	Stonyhurst.
p Blackpool	50	15, 16	34	17th	46·0	41·4	43·8	+ 4·3	15	2	1	23	45·5	•	48·6	•	2	0·06	- 0·69	0·8	- 0·1	11	- 1	Blackpool.
p Manchester (Whit. Pk.)	52	15th	40	17th	46·9	42·6	44·8	+ 5·4	20	0	•	•	•	•	•	•	2	0·18	- 0·48	*0·0*	- *0·4*	*0*	- *6*	*Whit. Park.*
a Liverpool (Bidston) ..	53	15th	39	20th	46·7	41·6	44·3	+ 3·7	18	1	•	•	•	•	•	•	1	0·02	- 0·51	*0·7*	•	*10*	—	*Liverpool.*
a Hawarden Bridge ..	54	15th	39	18th	49·0	41·6	45·5	+ 4·6	26	1	2	23	42·5	+2·4	45·8	+2·6	1	0·04	- 0·43	*0·9*	*0·0*	*13*	*0*	*Southport.*
											1	30	43·5	+2·5	48·9	+3·9	—	—	—	*0·0*	—	*0*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	51	15th	38	19th	46·9	42·1	44·6	+ 2·0	18	0	•	•	•	•	•	•	1	0·01	- 0·61	0·7	- 0·5	10	- 7	Llandudno.
a Holyhead	52	15th	39	18th	47·9	43·4	45·7	+ 2·8	26	0	•	•	•	•	•	•	0	0·00	- 0·85	*1·3*	—	*18*	—	*Holyhead.*
p Bettws-y-Coed ..	52	15th	36	17th	47·7	39·7	43·9	+ 1·6	23	6	1	30	44·3	-0·3	47·9	+2·7	1	0·10	—	0·6	—	8	—	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	1·1	—	15	—	Aberdovey.

* For notes see also opposite page.

† At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.															**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°		°			In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	59	15th	32	19th	45·0	37·0	41·2	+ 3·0	8	21	2	25	43·6	+0·7	48·7	+2·1	2	0·09	—	1·3	—	18	—	Aberystwyth.
a Pembroke	52	14, 15	39	19, 20	48·3	43·3	45·9	+ 1·5	27	0	*	*	*	*	*	*	2	0·09	- 0·80	0·8	—	11	—	Llangammarch
p Cardiff	51	15th	33	19th	46·1	38·4	42·4	+ 2·9	18	10	2	29	43·8	+1·5	48·9	+3·2	2	0·08	- 0·95	2·5	+ 1·1	33	+15	Pembroke,[Wells
																				2·4	—	*32*	--	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	52	15th	33	19, 20	46·1	38·4	42·4	+ 1·7	18	10	1	30	*	*	*	*	3	0·09	- 0·67	*1·7*	—	*22*	—	*Clifton.*
a Shaftesbury	47	15th	30	19th	42·3	35·7	39·1	+ 0·1	1	23	*	*	4·28	*	48·5	*	0	0·00	- 0·75	*	*	*	*	Shaftesbury.
a Arlington	49	15th	32	19th	45·1	37·3	41·4	+ 0·6	9	20	*	*	*	*	*	*	2	0·51	- 0·89	*	*	*	*	Arlington.
a Newquay	*51*	*15th*	*34*	*19, 20*	*46·9*	*42·1*	*44·6*	*- 0·5*	*18*	*0*	*	*	47·7	*	*	*	*1*	*0·05*	*- 0·83*	2·6	+ 1·0	34	+13	Newquay.
a Cullompton	51	15th	31	19, 20	46·0	36·4	41·4	+ 0·8	11	24	5	23	45·5	*	*	*	1	0·02	- 0·85	2·9	+ 1·7	38	+22	Cullompton.
a Portland	52	14-16	34	20th	47·6	41·3	44·6	+ 1·4	21	2	*	*	*	*	*	*	0	0·00	—	*2·6*	—	*33*	—	*Weymouth.*
p Plymouth	51	15, 16	36	19, 20	47·3	41·4	44·5	+ 0·9	20	2	0	32	45·9	+0·2	*	*	2	0·04	- 0·95	2·4	+ 0·8	30	+10	Plymouth.
a Falmouth	50	15-17	36	19, 20	46·9	40·0	43·6	- 1·3	20	6	0	31	*	*	*	*	1	0·04	- 1·27	1·3	- 0·5	17	- 6	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	51	14-16	40	19th	47·4	42·4	45·0	+ 3·1	21	0	*	*	*	*	*	*	4	0·10	- 0·61	*	*	*	*	* *
a Blacksod Point ..	53	14, 15	39	19th	48·3	42·7	45·6	+ 2·1	25	0	*	*	*	*	*	*	3	0·40	- 0·90	*	*	*	*	* *
p Markree Castle ..	52	15th	34	20th	46·7	39·7	43·3	+ 3·1	19	6	0	31	45·7	*	48·7	*	2	0·14	- 0·88	0·1	- 1·0	1	-14	Markree Castle.
a Birr Castle	53	15th	34	14, 15	47·4	38·4	43·1	+ 2·7	23	10	*	*	*	*	*	*	1	0·04	- 0·66	*0·6*	*- 0·8*	*8*	*-11*	*Birr Castle.*
b, East .. *p* Armagh	52	15th	36	17th	46·0	40·3	43·3	+ 3·3	16	5	1	30	44·0	+2·3	47·6	+2·6	1	0·09	- 0·53	0·5	- 0·7	7	-10	Armagh.
a Donaghadee	51	14, 15	36	14th	47·0	41·6	44·4	+ 3·0	18	1	*	*	*	*	*	*	4	0·16	- 0·51	*	*	*	*	* *
											0	34	45·2	+2·6	48·0	+2·5	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	31	*	*	*	*	—	—	—	0·6	- 1·1	8	-15	Phœnix Park.
a, East .. *p* Dublin, City	53	15th	40	17th	47·9	42·3	45·2	+ 2·7	22	0	0	38	*	*	*	*	1	0·02	- 0·45	*	*	*	*	Dublin City.
a Kilkenny											*	*	*	*	*	*	—	—	—	*	*	*	*	* *
a Waterford ..	53	14th	30	14th	47·1	40·3	43·8	+ 1·7	20	5	*	*	*	*	*	*	1	0·03	- 0·94	*	*	*	*	* *
a Carrick-on-Suir ..	*52*	*15th*	*34*	*14th*	*45·7*	*40·0*	*43·0*	--	*15*	*6*	1	28	*	*	*	*	*1*	*0·01*	—	*0·9*	—	*12*	—	*Carrick-on-Suir.*
a Birr Castle	53	15th	34	14, 15	47·4	38·4	43·1	+ 2·7	23	10	*	*	*	*	*	*	1	0·04	- 0·63	0·6	- 0·8	8	-11	Birr Castle.
b, West .. *a* Foynes	54	14th	36	17th	47·1	39·6	43·5	+ 0·7	21	7	*	*	*	*	*	*	3	0·10	- 0·93	*	*	*	*	* *
a Cahir	51	15th	30	14th	45·6	39·0	42·4	- 0·1	15	8	*	*	*	*	*	*	3	0·08	—	*	*	*	*	* *
a Killarney	53	14, 15	35	14, 20	46·7	39·6	43·3	- 0·1	19	7	*	*	*	*	*	*	2	0·18	- 1·42	*	*	*	*	* *
a Valencia	53	15th	34	20th	48·3	39·4	44·0	- 1·5	25	7	*	*	*	*	*	*	2	0·19	- 1·25	0·9	- 0·4	12	- 6	Valencia.
a Roche's Point	51	14, 15	38	14th	47·6	42·3	45·1	+ 0·5	22	0	*	*	*	*	*	*	3	0·11	- 1·11	0·8	—	10	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	52	14-16	39	19, 20	49·1	43·1	46·2	- 1·2	29	0	*	*	*	*	*	*	0	0·00	- 0·92	0·6	- 1·0	8	-12	Scilly.
a Jersey, St. Aubins ..	55	15th	32	20th	48·6	42·9	45·9	+ 1·4	27	0	*	*	*	*	*	*	0	0·00	- 0·86	2·2	+ 0·2	28	+ 3	St. Heliers.
a Guernsey (Villa Carey)	50	14-16	35	20th	47·6	43·0	45·4	+ 0·3	24	0	0	31	47·5	+1·0	51·8	+2·6	3	0·07	- 0·90	1·6	+ 0·2	20	+ 2	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·3 hrs. 43 %; Ramsgate, 3·0 hrs. 39 %; Rhyl, 1·0 hrs. 14 %; Salcombe, 2·0 hrs. 26 %; Tenby, 2·9 hrs. (+1·4) 38 % (+19); Torquay, 1·9 hrs. (+0·2) 25 % (+3).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, December 20th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	46	45	45·9	+0·9	SCOTLAND, W. ..	Lamlash	48	47	47·3	+0·6
	Kirkwall	46	43	44·8	+2·2		Ballantrae	46	44	44·9	+0·2
	Wick	47	46	46·9	+0·8	ENGLAND, N.W. ..	Port Erin	50	48	48·8	+0·3
SCOTLAND, E. ..	Cromarty	47	43	44·9	+3·3	ENGLAND, S.W. ..	Newquay	52	50	51·3	+2·8
	Pennan Bay	47	44	45·5	+3·1		Scilly	49	49	49·0	--
	Aberdeen, Cove Bay	45	44	44·9	+1·6		Plymouth‡	52	51	51·6	+2·7
ENGLAND, N.E. ..	Burnmouth, Berwick	47	45	45·9	+3·0		Salcombe	52	46	49·2	+0·1
	Scarborough	45	43	43·9	-0·1	IRELAND, N.W. ..	Sheephaven	48	48	48·9	+1·1
ENGLAND, E. ..	Shipwash Lightship	49	45	47·2	+2·2		Teelin	50	47	48·3	+3·1
ENGLAND, S.E. ..	Eastbourne‡	48	43	46·7	+0·4	IRELAND, S.W. ..	Cleggan	50	47	48·7	+3·5
							Seafield	50	44	48·6	+1·4

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.
The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.
The rainfall is measured at the hour of the morning observations and entered to the preceding day.
The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.
Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.
Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIFTY-FIRST WEEK—December 14th to December 20th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	52	33	47·6	40·6	44·2	+ 5·5	21	+ 13	4	−27	4	− 1	0·91	−0·29	0·2	−0·3	4	− 4
Eastern.																		
1. SCOTLAND, EAST ...	53	21	46·1	36·8	41·6	+ 4·3	11	+ 4	22	−19	2	− 1	0·20	−0·37	0·9	+0·3	14	0
2. ENGLAND, N.E.	53	35	46·8	40·9	44·0	+ 5·5	19	+ 11	3	−30	2	− 2	0·07	−0·42	0·7	−0·5	9	− 7
3. ENGLAND, EAST ...	52	25	46·2	38·4	42·5	+ 4·4	19	+ 11	10	−28	3	0	0·10	−0·25	1·2	−0·1	16	− 2
4. MIDLAND COUNTIES ...	56	30	46·0	38·1	42·2	+ 4·2	18	+ 9	11	−28	1	− 2	0·04	−0·42	0·8	−0·3	11	− 4
5. ENGLAND, S.E.	52	25	46·0	37·9	42·1	+ 1·9	18	+ 4	11	−16	1	− 2	0·04	−0·44	2·3	+0·9	30	+12
Western.																		
6. SCOTLAND, WEST ...	52	30	46·2	40·2	43·2	+ 3·2	16	+ 5	5	−21	2	− 2	0·28	−0·82	0·7	−0·2	9	− 3
7. ENGLAND, N.W.	54	31	46·5	41·2	43·9	+ 4·2	17	+ 6	2	−25	2	− 1	0·10	−0·55	0·6	−0·4	8	− 5
8. ENGLAND, S.W.	52	30	46·1	38·9	42·7	+ 0·8	18	0	9	− 9	2	− 2	0·10	−0·81	2·0	+0·6	26	+ 8
9. IRELAND, NORTH ...	53	34	47·1	40·8	44·1	+ 3·2	20	+ 7	3	−19	3	− 2	0·16	−0·65	0·3	−0·8	4	−12
10. IRELAND, SOUTH ...	53	30	47·2	40·3	43·8	+ 1·1	20	− 2	5	−12	2	− 2	0·09	−0·92	0·7	−0·7	10	−10
11. ENGLISH CHANNEL ...	55	32	48·4	43·0	45·8	+ 0·3	27	− 3	0	− 5	1	− 4	0·02	−0·72	1·5	−0·3	19	− 4

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 3 Weeks, November 30th to December 20th, 1913.

0. SCOTLAND, NORTH ...	57	14	*	*	*	*	48	+ 21	49	−39	16	0	4·70	+0·54	0·4	−0·2	6	− 4
Eastern.																		
1. SCOTLAND, EAST ...	59	5	*	*	*	*	42	+ 18	74	−39	9	− 4	1·50	−0·53	1·2	+0·2	18	+ 3
2. ENGLAND, N.E.	56	17	*	*	*	*	58	+ 30	27	−62	5	− 6	0·24	−1·38	1·0	−0·2	14	− 3
3. ENGLAND, EAST ...	57	25	*	*	*	*	73	+ 42	24	−78	8	− 4	0·40	−0·95	1·3	−0·1	17	− 1
4. MIDLAND COUNTIES ...	58	21	*	*	*	*	72	+ 39	24	−82	8	− 3	0·77	−0·83	0·8	−0·4	10	− 6
5. ENGLAND, S.E.	58	25	*	*	*	*	88	+ 38	13	−58	8	− 4	0·74	−1·05	1·3	−0·2	17	− 2
Western.																		
6. SCOTLAND, WEST ...	57	26	*	*	*	*	50	+ 11	30	−37	14	0	2·78	−0·92	0·7	−0·3	10	− 4
7. ENGLAND, N.W.	57	18	*	*	*	*	68	+ 29	7	−63	11	− 2	1·77	−0·57	0·7	−0·3	9	− 5
8. ENGLAND, S.W.	56	30	*	*	*	*	99	+ 36	9	−40	12	− 2	1·89	−1·24	1·1	−0·4	14	− 5
9. IRELAND, NORTH ...	57	32	*	*	*	*	78	+ 36	10	−54	14	− 2	2·28	−0·32	0·5	−0·8	7	−11
10. IRELAND, SOUTH ...	57	30	*	*	*	*	91	+ 21	5	−43	13	− 1	1·99	−1·06	0·7	−0·8	9	−11
11. ENGLISH CHANNEL ...	56	32	*	*	*	*	139	+ 38	0	−12	11	− 4	1·91	−0·82	1·0	−0·8	12	−11

THE YEAR.—Aggregates, &c., for the Period of 51 Weeks, December 29th, 1912, to December 20th, 1913.

0. SCOTLAND, NORTH ...	78	14	*	*	*	*	2,246	+141	509	−253	225	−17	48·68	−2·49	2·8	−0·3	23	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	5	*	*	*	*	2,398	+ 51	732	−153	187	−12	25·54	−4·62	3·3	−0·4	27	− 3
2. ENGLAND, N.E.	82	17	*	*	*	*	2,863	+229	453	−196	174	− 7	21·14	−3·23	3·5	−0·5	29	− 4
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,325	+286	341	−382	170	− 5	20·72	−2·41	3·9	−0·5	32	− 4
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	3,171	+218	449	−308	172	− 1	25·82	+0·10	3·3	−0·6	27	− 5
5. ENGLAND, S.E.	84	22	*	*	*	*	3,522	+205	240	−279	164	− 4	26·09	−0·30	4·0	−0·5	33	− 3
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,690	+117	369	−205	208	− 1	41·23	−5·83	3·3	−0·5	27	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	3,006	+192	310	−208	197	+ 4	33·43	−0·68	3·6	−0·3	30	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	3,381	+205	232	−169	197	+ 4	38·23	+0·52	3·9	−0·4	32	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,800	+109	329	−151	227	− 1	37·85	+0·38	3·3	−0·3	27	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	3,226	+ 95	270	− 97	230	+27	43·62	+4·49	3·6	−0·4	30	− 3
11. ENGLISH CHANNEL ...	80	31	*	*	*	*	3,960	+196	38	− 87	194	−13	30·36	−1·53	4·5	−0·8	37	− 6

M.O., December 23, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 52. FIFTY-SECOND WEEK, SUNDAY, DECEMBER 21ST, TO SATURDAY, DECEMBER 27TH, 1913.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. Although the general condition was unstable and the sky often overcast, precipitation was not frequent except in the extreme north and north-west. Thunder occurred at Stornoway on the 23rd, and lightning was experienced at Kilmarnock on the 27th. Towards the end of the week showers of hail, sleet and snow fell in almost all parts of the country.

Temperature was rather above the normal over the northern and central parts of the United Kingdom, but was only equal to it in Ireland North, and a little below it in all the southern districts. The highest of the maxima were observed generally on the 26th, but at many stations in the north and east of Scotland they occurred on the 21st or 25th. The readings ranged from 53° in Ireland South and the English Channel to 49° in Scotland North. The lowest of the minima, which occurred in most parts of the Kingdom on the 25th, ranged from 19° in Scotland East to 30° in Ireland North and the English Channel. The lowest grass readings were 13° at Hampstead, 16° at Newton Rigg and Wisley, 17° at Kew and Buxton, and 18° at Crathes, Worksop, Raunds, Burnley and Marlborough. At a depth of 4 feet the temperature of the earth was still above the normal, but at a depth of 1 foot it was below it in many parts of the Kingdom.

Mean Temperature of the Sea. On many parts of the coast the water was colder than during the corresponding week of last year, the mean for the period ranging from 50° at Plymouth to 43° at Eastbourne, and to 42° at Scarborough and Cromarty. At most stations the temperature was above the average for the time of year, the greatest divergence being + 2°·9 at Pennan Bay.

Rainfall was less than the average in all the eastern and Midland Counties of England, as well as in Ireland South. Elsewhere it was more, the excess being moderate to large. On the 22nd 1·1 in. fell at Falmouth; on the 23rd 1·0 in. at Falmouth and 1·3 in. at Scilly; and on the 26th 1·1 in. at Huddersfield and 1·0 in. at Llangammarch Wells.

Bright Sunshine exceeded the normal in Scotland West and Ireland North, and just equalled it in Scotland East. In all other districts there was a deficit. Over a large portion of the Kingdom the daily mean was about 1 hour, but in Ireland North it was 1·4 hour, and in the English Channel 1·8 hour, while in Scotland North it was only 0·3 hour. The percentage of the possible duration ranged from 22 in the English Channel and 20 in Scotland West to 11 in England North-West and to 5 in Scotland North.

Barometer and Wind. At the beginning of the week an anticyclone extended over these Islands from central Europe, but under the influence of depressions which approached from the south-westward and north-westward, the high pressure system retreated in a south-easterly direction and dispersed. By Wednesday the pressure distribution had become favourable for Northerly winds, but, as large depressions appeared in the far north, these conditions were soon superseded by a Westerly type. The wind varied greatly in direction according to the relative positions of the highest and lowest pressures. It was, however, more often from the Westward than from any other point, and frequently blew a fresh or strong breeze on the western and north-western coasts. On Friday night, when a secondary depression passed eastward over the southern districts, gales from the Westward were general on our western and southern coasts, and on Saturday the wind was still fresh to a gale in many places.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 207.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Deficient	Deficient	Deficient	Moderate	Moderate	Deficient	Moderate	Deficient	Very deficient
	Rainfall ...	Heavy	Moderate	Moderate	Moderate	Moderate	Heavy	Heavy	Heavy	Moderate	Heavy	Light	Heavy
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Scanty	Moderate	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 4 weeks from Nov. 30th, 1913.	Warmth ...	2 * 1	2 * 0	2 * 0	3 * 1	3 * 1	2 * 1	1 * 0	2 * 0	2 * 1	2 * 0	2 * 1	2 * 1
	Rainfall ...	1 * 0	1 * 2	0 * 3	0 * 3	0 * 2	1 * 2	2 * 2	2 * 2	1 * 2	2 * 2	1 * 3	2 * 2
	Sunshine ...	0 * 0	1 * 0	0 * 0	0 * 0	0 * 2	1 * 2	1 * 1	0 * 0	1 * 3	0 * 3	0 * 4	0 * 2

PAST SEASONS.

WINTER, 1912–13. Dec. 1st–March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd–May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st–Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9
AUTUMN, 1913. Aug. 31st–Nov. 29th. 13 weeks.	Warmth ...	6 * 0	8 * 0	8 * 0	10 * 0	11 * 0	11 * 0	6 * 0	9 * 0	9 * 0	8 * 0	9 * 2	11 * 0
	Rainfall ...	4 * 4	2 * 4	4 * 6	5 * 6	5 * 4	5 * 5	2 * 4	4 * 6	3 * 5	3 * 2	7 * 1	4 * 3
	Sunshine ...	5 * 4	5 * 6	6 * 3	4 * 1	4 * 3	5 * 2	1 * 4	6 * 3	4 * 6	2 * 5	2 * 6	2 * 4

(33214—24.) Wt. 196—786. 450. 12/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature (°F): Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week: Of Highest each day.	Mean for the Week: Of Lowest each day.	Mean for the Week: For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees): Above 42°	Accumulated Heat: Below 42°	Grass Min.: Ground Frosts.	Grass Min.: Lowest Reading.	Earth 1 ft.: Mean	Earth 1 ft.: Difference from Average.	Earth 4 ft.: Mean.	Earth 4 ft.: Difference from Average.	Rainfall: No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine (Hours per Day): Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands: p *Baltasound* .. S	*49*	*21, 22*	*25*	*25th*	*42·7*	*34·0*	*38·5*	—	*2*	*30*	*	*	40·7	*	*	*	7	*1·83*	—	*0·0*	—	*0*	—	*Baltasound.*
a Lerwick ..	49	21, 22	29	25th	42·7	36·9	39·9	0·0	2	19	*	*	*	*	*	*	7	1·39	—	0·1	− 0·8	2	−13	Deerness.
a Stornoway ..	49	21st	32	25th	44·1	38·0	41·2	+ 1·6	6	17	*	*	*	*	*	*	6	1·22	− 0·18	0·5	− 0·3	8	− 4	Stornoway.
a *Castlebay, Barra Isd.*‡ ..	?50	*21, 25*	*36*	*27th*	*46·4*	*41·1*	*43·9*	*+ 1·5*	*17*	*3*	*	*	*	*	*	*	?6	?0·73	—	?0·3	—	*5*	—	*Castlebay.*
b, Mainland: a Wick ..	49	21st	27	25th	41·7	34·4	38·2	− 0·4	0	27	*	*	*	*	*	*	6	0·55	− 0·10	*	*	*	*	* *
p Strathpeffer ..	49	21st	26	25th	44·4	33·9	39·4	+ 2·3	7	32	*	*	*	*	*	*	6	1·31	− 0·55	0·5	− 0·5	8	− 8	Strathpeffer.
p Glencarron .. S											*	*	*	*	*	*	—	—	—	*	*	*	*	* *
p Fort Augustus .. S	48	21, 22, 25	26	25th	43·4	34·0	38·9	+ 0·7	4	30	*	*	*	*	*	*	6	1·96	+ 0·66	0·1	− 0·3	2	− 5	Fort Augustus.
p Fort William .. S	48	21, 22, 25	31	24, 25	44·1	35·3	39·9	+ 0·1	6	26	*	*	*	*	*	*	6	2·81	+ 0·57	*	*	*	*	* *
1. SCOTLAND, E.											7	18	35·3	−2·1	41·1	+1·4	—	—	—	1·1	—	17	—	Crathes S.
p Gordon Castle .. S	48	21, 22	29	25th	44·7	35·4	40·2	+ 1·9	8	26	*	*	*	*	*	*	4	0·62	+ 0·02	*0·5*	—	*8*	—	*Gordon Castle*
a Nairn ..	49	21st	29	25th	41·7	35·4	38·7	+ 1·2	0	23	*	*	*	*	*	*	6	0·85	+ 0·36	0·2	—	3	—	Nairn.
a Aberdeen ..	49	21st	27	25th	42·0	33·1	37·7	− 0·4	0	30	*	*	*	*	42·5	+0·7	5	0·36	− 0·26	1·4	+ 0·2	22	+ 3	Aberdeen.
a Balmoral .. S	47	22nd	22	25th	42·3	29·6	36·2	+ 1·8	1	45	6	20	*	*	*	*	5	0·43	− 0·28	*	*	*	*	Balmoral.
p Crieff .. S	47	25, 26	26	27th	43·9	33·1	38·7	+ 1·2	5	34	*	*	*	*	*	*	5	0·64	− 0·29	1·4	—	21	—	Balruddery.
a Leith ..	50	25th	33	25th	44·3	38·1	41·3	+ 2·0	6	16	*	*	*	*	*	*	3	0·44	+ 0·04	*	*	*	*	* *
p West Linton .. S	44	21st	19	25th	40·4	31·9	36·3	− 0·3	0	40	*	*	*	*	*	*	5	1·10	—	*0·6*	—	*9*	—	*West Linton*
p Marchmont .. S	47	26th	26	25th	43·7	32·0	38·1	+ 1·5	5	38	4	22	38·0	+1·0	*	*	5	0·63	+ 0·06	0·6	− 0·6	9	− 9	Marchmont.
2. ENGLAND, N.E.																								
a, North: a Alnwick Castle ..	50	25th	29	25th	44·1	34·4	39·4	+ 0·7	6	29	4	20	37·0	−0·6	42·9	+2·1	4	0·46	− 0·14	1·1	—	16	—	Cockle Park.
a Shields ..	51	25th	31	25th	44·9	35·0	40·2	+ 1·1	8	28	*	*	*	*	*	*	3	0·54	+ 0·12	*	*	*	*	* *
p Durham ..	48	26th	28	25th	43·6	32·4	38·2	+ 0·5	4	36	6	26	*	*	*	*	3	0·30	− 0·10	0·9	− 0·5	13	− 7	Durham.
p Rounton ..	50	26th	27	25th	43·4	31·4	37·6	+ 0·1	4	39	7	19	38·8	*	*	*	3	0·18	− 0·24	*	*	*	*	Rounton.
a *West Witton* ..	*48*	*26th*	*30*	*25th*	*42·7*	*34·1*	*38·6*	—	*2*	*30*	4	25	39·6	*	44·1	*	*4*	*1·04*	—	*	*	*	*	*West Witton.*
p Scarborough ..	49	26th	32	23-25	44·6	34·7	39·9	+ 0·7	7	29	*	*	*	*	44·9†	*	4	0·42	− 0·06	1·2	—	17	—	Scarborough.
p York ..	50	26th	29	25th	44·3	34·6	39·6	+ 1·4	6	29	*	*	41·5	+1·2	46·1	+2·4	3	0·28	− 0·14	0·3	− 0·5	4	− 7	York.
											4	21	38·9	−0·4	46·1	+1·9	—	—	—	*0·2*	—	*3*	—	*Hull.*
b, South: a Spurn Head ..	49	26th	33	25th	43·1	36·1	39·7	+ 0·1	3	22	*	*	*	*	*	*	1	0·22	− 0·15	*1·1*	—	*15*	—	*Spurn Head.*
a Lincoln ..	52	26th	28	25th	43·4	31·9	37·9	+ 0·3	4	38	*	*	38·5	−1·5	46·0	+2·2	1	0·16	− 0·25	*	*	*	*	Lincoln.
a Fulbeck ..	50	26th	27	25th	41·9	31·7	37·0	− 0·5	0	35	6	21	40·1	0·0	46·7	+2·1	2	0·19	− 0·26	1·2	—	16	—	Rauceby.
											*	*	*	*	*	*	—	—	—	1·3	—	18	—	Skegness.
3. ENGLAND, E.											5	23	39·4	−0·9	45·7	+1·4	—	—	—	*1·3*	—	*18*	—	*Lowestoft.*
a, North: p Cromer ..	50	26th	31	25th	43·6	33·9	38·9	+ 1·5	4	31	*	*	*	*	*	*	3	0·12	—	1·3	—	18	—	Cromer.
p Little Massingham ..	50	26th	27	25th	41·7	33·1	37·6	+ 0·1	0	31	6	22	*	*	*	*	2	0·16	− 0·35	0·8	− 0·6	11	− 8	Lit. Massingham
a Yarmouth ..	50	26th	27	26th	42·4	32·0	37·4	− 0·9	1	37	*	*	40·4	+0·6	46·7	+2·3	4	0·14	− 0·31	1·1	—	15	—	Yarmouth.
a Norwich ..	50	26th	28	25th	42·4	32·7	37·7	− 0·5	1	34	5	23	38·6	*	*	*	4	0·17	—	*1·1*	—	*15*	—	*Norwich.*
p Geldeston ..	51	26th	27	25th	43·4	32·6	38·2	0·0	4	35	*	*	*	*	*	*	4	0·21	− 0·22	1·1	− 0·5	15	− 6	Geldeston.
b, South: p Cambridge ..	50	26, 27	26	22nd	42·7	31·9	37·5	− 0·4	2	37	5	23	39·7	−0·7	46·2	+1·5	3	0·19	− 0·14	1·1	− 0·3	15	− 3	Cambridge.
a *Felixstowe* ..	*49*	*26, 27*	*29*	*22nd*	*43·6*	*34·1*	*39·0*	*− 0·2*	*4*	*30*	*	*	*	*	*	*	*2*	*0·18*	—	*1·5*	—	*20*	—	*Felixstowe.*
a Clacton-on-Sea ..	49	26th	29	23rd	42·3	33·6	38·1	− 0·8	1	31	4	23	41·5	−0·8	47·6	+0·9	2	0·29	—	1·4	—	18	—	Clacton.
a Rothamsted ..	50	26th	28	22nd	43·1	31·9	37·7	− 0·1	3	38	*	*	*	*	*	*	3	0·25	− 0·27	1·2	− 0·2	16	− 2	Rothamsted.
a *Shoeburyness* ..	*51*	*26th*	*31*	*25th*	*43·9*	*34·9*	*39·6*	*+ 0·5*	*5*	*28*	6	23	41·3	−0·6	*	*	*3*	*0·47*	*+ 0·16*	*1·0*	—	*13*	—	*Southend.*
p Tottenham ..	49	26th	31	25th	43·1	35·7	39·6	+ 0·4	3	24	4	28	*	*	48·4	+2·3	2	0·44	—	0·9	—	12	—	Tottenham.
4. MIDLAND COUNTIES.											3	24	39·6	−0·1	45·6	+2·8	—	—	—	*0·6*	—	*8*	—	*Huddersfield.*
a, East: a Harrogate ..	48	25th	28	25th	42·7	33·1	38·1	+ 0·5	2	33	3	22	40·5	+0·3	43·7	+1·9	3	0·84	+ 0·27	1·2	—	17	—	Harrogate.
a Bawtry ..	52	26th	29	25th	43·9	33·9	39·1	+ 1·1	5	31	5	18	40·1	*	44·9	*	2	0·17	− 0·24	0·8	− 0·2	11	− 3	Worksop.
p *Buxton* ..	*47*	*26th*	*28*	*25th*	*40·6*	*32·4*	*36·7*	*+ 0·8*	*0*	*37*	5	17	40·0	+0·7	45·7	+1·9	*5*	*1·13*	*− 0·02*	*0·5*	—	*7*	—	*Buxton.*
a Nottingham ..	51	26th	28	22, 25	43·1	32·6	38·1	− 0·3	3	35	5	22	38·2	−1·0	44·3	+1·9	2	0·16	− 0·30	0·6	—	8	—	Nottingham.
p Birmingham, Edgbsn.	50	26th	32	24th	42·7	35·1	39·1	+ 1·0	2	26	4	24	41·4	−0·2	47·4	+1·7	1	0·25	− 0·25	1·0	—	14	—	Birmingham.
a Raunds ..	51	26th	26	22, 25	42·1	31·0	36·8	− 0·9	0	40	4	18	41·4	*	48·6	*	2	0·21	—	*	*	*	*	Raunds.
p Oxford ..	50	27th	30	21, 23, 25	43·0	33·1	38·3	− 0·8	3	34	5	22	*	*	*	*	4	0·31	− 0·13	1·3	− 0·1	17	− 1	Oxford.
											3	24	40·7	+1·0	45·8	+2·1	—	—	—	0·9	—	12	—	Sheffield.
b, West: a Cheadle ..	48	25th	28	24th	43·7	32·9	38·5	+ 1·2	5	34	6	23	*	*	*	*	3	0·39	− 0·25	*	*	*	*	Cheadle.
p Shrewsbury ..	50	27th	30	24th	45·4	34·6	40·2	+ 0·2	10	30	2	27	*	*	*	*	4	0·25	—	*	*	*	*	Shrewsbury.
a Hereford ..	51	26th	30	25th	43·0	32·4	37·9	− 0·9	3	36	4	21	*	*	*	*	3	0·20	− 0·31	*	*	*	*	Hereford.
a Cirencester ..	50	26th	27	22, 23	42·3	30·6	36·7	− 1·4	1	42	5	24	40·9	*	46·4	*	3	0·29	− 0·28	1·0	− 0·3	13	− 4	Cirencester.
a Bath ..	52	26th	25	21st	43·7	30·6	37·4	− 2·7	5	43	*	*	*	*	*	*	3	0·42	− 0·22	0·8	—	11	—	Bath.
5. ENGLAND, S.E.											*	*	*	*	*	*	—	—	—	*	*	*	*	Canterbury.
p Kew ..	50	26, 27	28	25th	43·1	34·3	38·9	− 0·3	3	29	5	17	39·7	−1·7	47·1	+1·4	3	0·53	+ 0·12	0·8	− 0·4	11	− 5	Kew.
a Marlborough ..	49	26th	24	25th	41·3	30·0	35·9	− 2·1	0	43	5	18	*	*	47·7	*	3	0·52	− 0·12	0·6	− 0·6	8	− 8	Marlborough.
a Margate ..	51	26th	32	22, 25	44·3	35·9	40·3	+ 0·2	6	24	3	29	44·5	+2·2	49·1	+4·2	3	0·48	+ 0·05	0·7	− 0·8	9	−10	Margate.
a Wisley, Surrey ..	50	26th	27	22nd	41·9	31·4	36·9	− 2·6	0	36	6	16	39·1	−2·2	45·9	+0·8	3	0·61	—	1·0	—	13	—	Wisley.
											3	25	40·0	−2·0	48·1	+1·6	—	—	—	1·1	—	14	—	Worthing.
p Salisbury (Wilton) ..	51	26th	26	25th	43·4	29·3	36·6	− 1·9	4	47	6	21	39·6	*	*	*	5	1·17	+ 0·45	*	*	*	*	Salisbury.
a Tunbridge Wells ..											*	*	*	*	*	*	—	—	—	*	*	*	*	Tunbridge Wells
a Dungeness ..	49	26th	26	26th	44·1	33·7	39·1	− 1·5	6	32	*	*	*	*	*	*	2	1·00	+ 0·53	0·9	—	12	—	Littlestone.
p Hastings ..	50	26th	31	25th	41·9	37·3	41·3	+ 0·7	8	20	2	25	40·6	*	47·6	*	3	1·09	+ 0·50	*1·4*	*− 0·4*	*18*	*− 6*	*Hastings.*
p Southampton ..	51	26th	29	25th	44·4	35·0	39·9	− 1·0	7	28	4	22	*	*	*	*	3	1·05	+ 0·41	1·2	− 0·3	16	− 4	Southampton.
a Ventnor ..	51	26th	34	24th	46·0	38·0	42·2	− 0·6	18	11	*	*	*	*	*	*	3	1·09	+ 0·48	1·4	− 0·2	18	− 3	Ventnor.
											4	19	41·7	−1·7	48·5	+1·2	—	—	—	*0·2*	—	*3*	—	*Portsmouth.*
											*	*	43·0	*	49·5	*	—	—	—	1·3	− 0·4	17	− 5	Eastbourne.
											*	*	40·2	*	45·5	*	—	—	—	*1·8*	—	*23*	—	*Bournemouth.*
LONDON.											*	*	*	*	46·7	*	—	—	—	*1·1*	*− 0·5*	*14*	*− 6*	*Brighton.*
a *Westminster* ..	*51*	*26th*	*29*	*25th*	*44·0*	*33·7*	*39·1*	*− 0·5*	*6*	*32*	5	25	*	*	*	*	*2*	*0·51*	*+ 0·10*	*0·4*	*− 0·1*	*5*	*− 1*	*Westminster.*
a *Greenwich* ..	*51*	*26th*	*30*	*25th*	*43·3*	*33·7*	*38·7*	*− 0·9*	*4*	*31*	5	19	*	*	*	*	*2*	*0·52*	*+ 0·12*	*0·5*	*− 0·6*	*7*	*− 8*	*Greenwich.*
a *Hampstead* ..	*49*	*26th*	*29*	*25th*	*42·3*	*33·0*	*37·8*	—	*1*	*33*	7	13	*	*	*	*	*2*	*0·41*	—	*0·9*	—	*12*	—	*Hampstead.*
a *Camden Square* ..	*51*	*26th*	*27*	*25th*	*43·7*	*32·7*	*38·4*	—	*5*	*35*	5	25	*	*	*	*	*2*	*0·43*	—	*0·7*	—	*9*	—	*Camden Square.*
6. *a.* SCOTLAND, W.																								
a Poltalloch .. S	49	21st	29	25th	44·9	37·3	41·3	+ 1·6	8	20	*	*	*	*	*	*	7	2·34	+ 1·14	*	*	*	*	* *
p Glasgow ..	47	21, 25, 26	33	25, 27	44·1	36·6	40·5	+ 1·4	6	21	2	23	*	*	*	*	6	1·37	+ 0·52	0·8	+ 0·3	12	+ 4	Glasgow.
p Rothesay .. S	49	25, 26	29	24th	45·3	35·7	40·7	+ 0·7	9	26	2	28	42·4	*	45·9	+2·3	6	2·39	+ 1·30	*0·9*	—	*13*	—	*Rothesay.*
a Kilmarnock ..	51	27th	28	25th	45·7	36·3	41·2	+ 1·2	10	24	*	*	*	*	*	*	6	1·71	—	*0·9*	—	*13*	—	*Kilmarnock.*
a Colmonell .. S	49	25th	34	27th	44·6	38·1	41·5	+ 0·6	7	17	0	32	*	*	*	*	6	1·68	+ 0·56	*	*	*	*	* *
p Dumfries .. S	48	25, 26	31	25th	43·9	35·0	39·6	+ 1·0	5	27	4	26	39·6	*	44·6	*	5	0·83	− 0·01	*1·2*	—	*17*	—	*Dumfries.*
p Cally, Gatehouse S	47	25th	27	25th	43·9	32·3	38·3	− 0·5	5	37	*	*	*	*	*	*	6	1·23	+ 0·07	*	*	*	*	* *
b. I. OF MAN.																								
p Douglas ..	49	26th	36	21, 24, 27	44·4	36·3	40·5	− 1·2	7	23	3	30	*	*	*	*	4	1·21	+ 0·21	2·0	+ 0·6	28	+ 9	Douglas.
											3	18	40·1	+0·2	45·5	+2·6	—	—	—	*0·3*	—	*4*	—	*Burnley.*
7. *a.* ENGLAND, N.W.											*	*	*	*	*	*	—	—	—	0·9	—	12	—	Hoylake.
p Aspatria ..	47	26th	31	25th	44·0	34·6	39·5	+ 1·0	6	29	2	23	41·9	*	46·5	*	4	1·62	+ 0·82	0·7	—	10	—	Aspatria.
p Newton Rigg ..	49	26th	27	25th	43·1	33·4	38·4	+ 1·5	3	32	5	16	40·9	+1·1	44·6	+2·4	4	1·43	+ 0·59	0·8	− 0·3	11	− 4	Newton Rigg.
p Stonyhurst ..	48	26th	33	24, 25	43·0	36·7	40·0	+ 1·8	3	20	4	21	*	*	*	*	4	1·32	+ 0·34	0·6	− 0·3	8	− 4	Stonyhurst.
p Blackpool ..	49	26th	37	24th	45·9	40·1	43·1	+ 3·7	16	5	0	32	44·1	*	48·0	*	5	0·76	+ 0·11	1·2	+ 0·2	16	+ 3	Blackpool.
p Manchester (Whit. Pk.)	51	26th	30	25th	44·9	36·4	40·8	+ 1·5	8	23	*	*	*	*	*	*	5	1·12	+ 0·48	*0·1*	*− 0·3*	*1*	*− 5*	*Whit. Park.*
a Liverpool (Bidston) ..	51	25, 26	37	21st	45·4	38·9	42·3	+ 1·9	15	9	*	*	*	*	*	*	5	0·48	− 0·04	*0·8*	—	*11*	—	*Liverpool.*
a Hawarden Bridge ..	52	25th	36	24th	47·3	38·9	43·3	+ 2·6	22	9	1	25	40·3	+1·0	44·7	+2·3	3	0·67	+ 0·22	*1·0*	*0·0*	*14*	*0*	*Southport.*
											2	23	41·0	+0·7	47·9	+3·4	—	—	—	*0·2*	—	*3*	—	*Manchester (City)*
b. NORTH WALES.																								
p Llandudno ..	52	26th	37	21st	45·4	39·3	42·5	+ 0·2	15	8	*	*	*	*	*	*	5	0·64	+ 0·03	0·5	− 0·8	7	−11	Llandudno.
a Holyhead ..	51	25, 26	40	27th	46·7	41·0	44·0	+ 1·5	18	3	*	*	*	*	*	*	2	0·40	− 0·40	*0·7*	—	*10*	—	*Holyhead.*
p Bettws-y-Coed ..											*	*	*	*	*	*	—	—	—	*	*	*	*	Bettws-y-Coed.
											*	*	*	*	*	*	—	—	—	0·7	—	10	—	Aberdovey.

* For notes see also opposite page. † At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				0·7	—	9	—	Aberystwyth.
a Llangammarch Wells	49	25th	24	21st	41·9	31·7	37·0	− 1·0	0	35	3	20	40·4	−1·8	47·7	+1·6	5	1·45	—	0·6	—	8	—	Llangammarch
a Pembroke	52	25, 26	35	21, 22	47·1	40·3	43·8	− 0·1	20	5	•	•	•	•	•	•	4	0·54	− 0·33	0·5	− 1·0	7	−13	Pembroke.[Wells
p Cardiff	50	26, 27	32	22, 24	43·9	35·4	39·8	+ 0·2	5	25	4	24	40·2	−1·6	47·3	+2·2	3	0·63	− 0·34	*1·1*	—	*15*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	50	26th	31	25th	43·4	35·0	39·4	− 1·1	4	27	5	26	•	•	•	•	3	0·68	− 0·06	*0·8*	—	*11*	—	*Clifton.*
a Shaftesbury	47	26th	31	24, 25	40·4	33·0	36·9	− 1·8	0	36	•	•	38·9	•	46·7	•	5	1·11	+ 0·41	•	•	•	•	Shaftesbury.
a Arlington	48	26th	30	22nd	42·4	33·7	38·2	− 2·0	1	30	•	•	•	•	•	•	4	1·41	+ 0·09	•	•	•	•	Arlington.
a Newquay	*50*	*25, 26*	*31*	*21, 22*	*46·4*	*38·9*	*42·8*	− *1·8*	*19*	*9*	•	•	43·9	•	•	•	*5*	*1·66*	+ *0·79*	0·7	− 0·9	9	−12	Newquay.
a Cullompton	51	26th	26	25th	44·0	31·6	38·1	− 2·3	6	40	5	20	41·3	•	•	•	6	0·98	+ 0·13	1·4	+ 0·1	18	+ 2	Cullompton.
a Portland	52	26th	35	21st	46·6	39·6	43·2	+ 0·3	18	7	•	•	•	•	•	•	3	0·90	—	*1·8*	—	*23*	—	*Weymouth.*
p Plymouth	51	26, 27	31	25th	47·0	38·0	42·7	− 0·5	22	11	2	27	42·2	−2·7	•	•	5	1·36	+ 0·41	1·1	− 0·5	14	− 6	Plymouth.
a Falmouth	51	26th	31	21st	48·0	37·3	42·9	− 1·5	26	13	2	27	•	•	•	•	6	2·90	+ 1·63	1·1	− 0·7	14	− 8	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	49	25th	34	27th	46·0	39·4	42·8	+ 1·3	17	7	•	•	•	•	•	•	6	1·44	+ 0·76	•	•	•	•	• • •
a Blacksod Point ..	51	25th	35	27th	46·7	39·4	43·2	0·0	19	7	•	•	•	•	•	•	6	2·00	+ 0·74	•	•	•	•	• • •
p Markree Castle ..	50	25, 26	30	21st	45·1	34·6	40·1	0·0	9	30	3	27	43·1	•	47·9	•	6	1·98	+ 1·00	1·0	− 0·1	14	− 2	Markree Castle.
a Birr Castle	50	26th	31	22, 24, 25	43·9	34·3	39·3	− 0·9	5	30	•	•	•	•	•	•	3	0·74	+ 0·06	*1·4*	*0·0*	*19*	*0*	*Birr Castle.*
b, East .. *p* Armagh	48	25th	32	24th	43·4	33·7	38·7	− 1·1	4	31	4	27	41·2	−0·9	46·5	+1·8	4	1·26	+ 0·65	1·7	+ 0·4	24	+ 6	Armagh.
a Donaghadee	48	25th	34	24, 27	43·1	35·6	39·5	− 1·7	3	24	•	•	•	•	•	•	3	0·60	− 0·05	•	•	•	•	• • •
											5	27	42·8	+0·7	47·1	+1·9	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											4	25	•	•	•	•	—	—	—	0·7	− 1·0	10	−14	Phœnix Park.
a, East .. *p* Dublin, City	51	26th	33	22, 24	43·7	34·9	39·5	− 2·7	5	27	1	30	•	•	•	•	2	0·49	0·00	•	•	•	•	Dublin City.
a Kilkenny	51	26th	25	22nd	43·3	32·4	38·1	− 2·6	4	36	•	•	•	•	•	•	4	0·30	− 0·45	•	•	•	•	• • •
a Waterford	51	26th	33	24–26	44·0	35·4	39·9	− 1·9	6	26	•	•	•	•	•	•	1	0·27	− 0·69	•	•	•	•	• • •
a Carrick-on-Suir ..	*50*	*26th*	*32*	*24, 27*	*42·4*	*34·4*	*38·6*	—	*1*	*28*	2	29	•	•	•	•	*3*	*0·39*	—	*1·3*	—	*17*	—	*Carrick-on-Suir.*
b, West .. *a* Birr Castle	50	26th	31	22, 24, 25	43·9	34·3	39·3	− 0·9	5	30	•	•	•	•	•	•	3	0·74	+ 0·03	1·4	0·0	19	0	Birr Castle.
a Foynes	51	25th	32	27th	44·7	36·6	40·8	− 1·9	8	22	•	•	•	•	•	•	5	0·88	− 0·08	•	•	•	•	• • •
a Cahir	50	26th	32	23–25	43·1	35·6	39·5	− 2·7	3	24	•	•	•	•	•	•	5	0·74	—	•	•	•	•	• • •
a Killarney	53	26th	33	23rd	45·5	37·7	41·8	− 1·2	10	19	•	•	•	•	•	•	5	1·13	− 0·44	•	•	•	•	• • •
a Valencia	52	26th	31	22nd	47·1	37·9	42·7	− 2·5	22	11	•	•	•	•	•	•	5	0·52	− 0·89	0·9	− 0·5	12	− 6	Valencia.
a Roche's Point	50	25, 26	31	21st	46·0	38·3	42·3	− 2·1	18	10	•	•	•	•	•	•	6	0·28	− 0·92	1·1	—	14	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	53	26, 27	38	21st	50·4	41·9	46·3	− 0·8	31	0	•	•	•	•	•	•	5	2·16	+ 1·28	0·8	− 0·8	10	−10	Scilly.
a Jersey, St. Aubins ..	53	26th	30	22nd	48·4	36·9	42·9	− 1·1	28	14	•	•	•	•	•	•	3	1·17	+ 0·35	2·3	+ 0·3	29	+ 4	St. Heliers.
a Guernsey (Villa Carey)	51	25, 26	37	21-23	47·6	39·3	43·6	− 1·1	23	8	1	30	44·1	−1·7	49·9	+1·2	5	1·25	+ 0·33	2·2	+ 0·7	28	+ 9	Guernsey.*

Additional Sunshine Means:—*Bognor, 1·4 hrs. 18 %; Ramsgate, 1·0 hrs. 13 %; Rhyl, 0·8 hrs. 11 %; Salcombe, 1·5 hrs. 19 %; Tenby, 1·4 hrs. (−0·2) 18 % (−2); Torquay, 1·3 hrs. (−0·5) 17 % (−7).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, December 27th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	46	45	45·6	+1·2	SCOTLAND, W. ..	Lamlash	47	46	46·4	−0·3
	Kirkwall	46	42	43·8	+1·7		Ballantrae	45	42	43·7	−0·4
	Wick	46	45	45·9	+0·1	ENGLAND, N.W. ..	Port Erin	49	46	48·0	+0·3
	Cromarty	45	37	41·9	+0·8		Newquay	50	49	49·2	+1·1
SCOTLAND, E. ..	Pennan Bay	46	43	44·2	+2·9	ENGLAND, S.W. ..	Scilly	49	49	49·0	—
	Aberdeen, Cove Bay	44	44	44·0	+1·7		Plymouth‡	50	49	49·8	+1·1
	Burnmouth, Berwick	45	43	44·1	+1·8		Salcombe	50	45	47·5	−1·1
ENGLAND, N.E. ..	Scarborough	44	40	42·0	−1·5	IRELAND, N.W. ..	Sheephaven	46	44	45·4	−0·1
ENGLAND, E. ..	Shipwash Lightship	47	44	45·7	+1·6		Teelin	47	41	45·0	−0·7
ENGLAND, S.E. ..	Eastbourne‡	44	43	43·3	−1·3	IRELAND, S.W. ..	Cleggan	47	46	46·5	+1·5
							Seafield	48	44	46·2	−0·6

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The rainfall is measured at the hour of the morning observations and entered to the preceding day.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIFTY-SECOND WEEK—December 21st to December 27th, 1913.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	49	26	43·4	35·4	39·6	+ 1·3	4	− 3	25	− 9	6	+ 1	1·54	+0·40	0·3	−0·3	5	− 5
Eastern.																		
1. SCOTLAND, EAST ...	50	19	42·9	33·6	38·4	+ 1·6	3	− 3	31	−12	5	+ 1	0·63	+0·02	0·9	0·0	14	0
2. ENGLAND, N.E.	52	27	43·8	33·6	38·8	+ 0·8	5	− 2	31	− 5	3	0	0·31	−0·09	1·0	−0·1	14	− 1
3. ENGLAND, EAST ...	51	26	42·7	33·0	38·1	+ 0·6	2	− 6	34	− 7	3	− 1	0·22	−0·17	1·1	−0·2	15	− 3
4. MIDLAND COUNTIES ...	52	25	43·1	32·7	38·1	+ 0·7	3	− 6	35	− 6	3	− 1	0·32	−0·20	1·0	−0·2	13	− 2
5. ENGLAND, S.E.	51	24	43·7	33·9	39·0	− 0·6	5	− 8	31	+ 1	3	− 1	0·84	+0·32	1·0	−0·4	13	− 5
Western.																		
6. SCOTLAND, WEST ...	51	27	44·6	36·0	40·6	+ 1·4	7	− 2	25	− 4	6	+ 1	1·60	+0·46	1·4	+0·5	20	+ 8
7. ENGLAND, N.W.	52	27	45·1	37·7	41·5	+ 2·2	8	− 2	18	−11	4	0	0·94	+0·27	0·8	−0·2	11	− 2
8. ENGLAND, S.W.	52	24	44·5	35·6	40·2	− 1·2	7	− 10	25	+ 4	4	0	1·20	+0·26	0·9	−0·5	11	− 6
9. IRELAND, NORTH ...	51	30	44·7	36·2	40·6	0·0	8	− 5	23	0	4	0	1·34	+0·51	1·4	+0·3	19	+ 4
10. IRELAND, SOUTH ...	53	25	44·6	35·9	40·4	− 2·1	7	− 14	24	+ 6	4	− 1	0·59	−0·48	1·0	−0·4	14	− 4
11. ENGLISH CHANNEL ...	53	30	48·8	39·4	44·3	− 0·7	7	− 21	27	+20	4	− 1	1·53	+0·76	1·8	−0·1	22	− 1

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 4 Weeks, November 30th to December 27th, 1913.

0. SCOTLAND, NORTH ...	57	14	*	*	*	*	52	+ 18	74	−48	22	+ 1	6·54	+1·24	0·3	−0·3	5	− 4
Eastern.																		
1. SCOTLAND, EAST ...	59	5	*	*	*	*	45	+ 15	105	−51	14	− 3	2·20	−0·44	1·2	+0·2	17	+ 3
2. ENGLAND, N.E.	56	17	*	*	*	*	63	+ 28	58	−67	8	− 6	0·55	−1·47	1·0	−0·2	14	− 3
3. ENGLAND, EAST ...	57	25	*	*	*	*	75	+ 36	58	−85	11	− 5	0·62	−1·12	1·3	−0·1	17	− 2
4. MIDLAND COUNTIES ...	58	21	*	*	*	*	75	+ 33	59	−88	11	− 4	1·09	−1·03	0·8	−0·4	11	− 5
5. ENGLAND, S.E.	58	24	*	*	*	*	93	+ 30	44	−57	11	− 5	1·58	−0·73	1·3	−0·1	16	− 2
Western.																		
6. SCOTLAND, WEST ...	57	26	*	*	*	*	57	+ 9	55	−41	20	+ 1	4·38	−0·46	0·9	−0·1	13	− 1
7. ENGLAND, N.W.	57	18	*	*	*	*	76	+ 27	25	−74	15	− 2	2·71	−0·30	0·7	−0·3	10	− 4
8. ENGLAND, S.W.	56	24	*	*	*	*	106	+ 26	34	−36	16	− 2	3·09	−0·98	1·0	−0·5	14	− 5
9. IRELAND, NORTH ...	57	30	*	*	*	*	86	+ 31	33	−54	18	− 2	3·62	+0·19	0·7	−0·5	10	− 7
10. IRELAND, SOUTH ...	57	25	*	*	*	*	98	+ 7	29	−37	17	− 2	2·58	−1·54	0·8	−0·7	10	−10
11. ENGLISH CHANNEL ...	56	30	*	*	*	*	146	+ 17	27	+ 8	15	− 5	3·44	−0·06	1·1	−0·7	14	− 9

THE YEAR.—Aggregates, &c., for the Period of 52 Weeks, December 29th, 1912, to December 27th, 1913.

0. SCOTLAND, NORTH ...	78	14	*	*	*	*	2,250	+138	534	−262	231	−16	50·52	−1·79	2·8	−0·2	23	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	5	*	*	*	*	2,401	+ 48	763	−165	192	−11	26·24	−4·53	3·3	−0·3	27	− 3
2. ENGLAND, N.E.	82	17	*	*	*	*	2,868	+227	484	−201	177	− 7	21·45	−3·32	3·5	−0·5	28	− 4
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,327	+280	375	−389	173	− 6	20·94	−2·58	3·9	−0·4	32	− 4
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	3,174	+212	484	−314	175	− 2	26·14	−0·10	3·2	−0·6	27	− 5
5. ENGLAND, S.E.	84	22	*	*	*	*	3,527	+197	271	−278	167	− 5	26·93	+0·02	4·0	−0·4	33	− 4
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,697	+115	394	−209	214	0	42·83	−5·37	3·3	−0·4	27	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	3,014	+190	328	−219	201	+ 4	34·37	−0·41	3·6	−0·2	30	− 2
8. ENGLAND, S.W.	83	19	*	*	*	*	3,388	+195	257	−165	201	+ 4	39·43	+0 78	3·8	−0·5	32	− 4
9. IRELAND, NORTH ...	77	21	*	*	*	*	2,808	+104	352	−151	231	− 1	39·19	+0·89	3·3	−0·2	27	− 2
10. IRELAND, SOUTH ...	79	22	*	*	*	*	3,233	+ 81	294	− 91	234	+26	44·21	+4·01	3·6	−0·4	29	− 4
11. ENGLISH CHANNEL ...	80	30	*	*	*	*	3,967	+175	65	− 67	198	−14	31·89	−0·77	4·5	−0·7	37	− 6

M.O., December 30, 1913.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 209

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-SIXTH YEAR. Vol. XXX. (New Series.) } No. 53. FIFTY-THIRD WEEK, SUNDAY, DECEMBER 28TH, 1913, TO SATURDAY, JANUARY 3RD, 1914.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The general condition was variable. Early in the week there were falls of sleet, snow or hail in nearly all parts of the Kingdom, these being followed by a temporary spell of fine cold weather. Late in the period rain was experienced in the north, and also in some western districts. Thunderstorms or lightning only occurred in several isolated parts of the country between December 28th and 30th.

Temperature was below the average in all districts, the deficit amounting to nearly 5° in several parts of England, and to more than 6° in Ireland South. Soon after the commencement of the week the thermometer fell very decidedly, and by December 31 touched a minimum of 9° in England North-East, 10° in Scotland East, and 11° in England South-West, while readings below 20° were registered in almost all other districts. In England East, however, the lowest temperature reported was 21°, and in the English Channel 32°. The lowest grass readings were −4° in the Midland Counties (at Worksop), +7° at Crathes, Balmoral and Llangammarch Wells, 8° at Buxton and 9° at Hampstead. The highest of the maxima, which occurred on January 2nd or 3rd, ranged from 53° in the English Channel and 52° in Scotland East to 46° in England East; on the 31st the highest reading reached at Crathes was only 26°. The temperature of the soil was below the normal very generally at a depth of 1 foot, but at 4 feet it was still above except in a few localities.

Mean Temperature of the Sea. Except at some places on the north-east coast the water was considerably colder than during the corresponding week of last year, and was also cold in comparison with the average. The mean for the week ranged from about 48° on the south-west coast of England to 41° at Eastbourne, 39°·5 at Cromarty, and to 38° at Scarborough.

Rainfall exceeded the normal in England North-East, but was below it elsewhere the fall being generally slight in the south-western, southern and south-eastern districts. The greatest depth of snow reported was 8½ inches at Strathpeffer on the 29th, and 9½ inches at Rounton on the 30th.

Bright Sunshine was above the average in all districts. Over a large portion of England and in Ireland the daily mean was at least 2·5 hours, and the percentage of the possible duration about 35. In Scotland North the daily mean was less than an hour, and the percentage only 13.

Barometer and Wind. During the earlier half of the week an anticyclone moved slowly over the United Kingdom from the Atlantic, and at the same time increased in intensity. The Northerly and North-Westerly winds which accompanied this movement were at first strong to a gale, but subsequently became light. After Wednesday a large depression which had reached Iceland spread gradually southward over these islands, while the anticyclone underwent some modification in form and retreated southwards to the Bay of Biscay. The wind consequently backed to the North-Westward and Westward very generally and increased somewhat in force.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 211.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Moderate	Moderate	Moderate	Light	Light	Light	Light	Very light	Light	Light	Very light	Light
	Sunshine ...	Abundant	Abundant	Very abundant	Very abundant	Abundant	Abundant	Abundant	Very abundant	Abundant	Abundant	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 5 weeks from Nov. 30th, 1913.	Warmth ...	2 * 1	2 * 1	2 * 1	3 * 2	3 * 2	2 * 2	1 * 0	2 * 1	2 * 2	2 * 1	2 * 2	2 * 2
	Rainfall ...	1 * 0	1 * 2	0 * 3	0 * 4	0 * 3	1 * 3	2 * 3	2 * 3	1 * 3	2 * 3	1 * 4	2 * 3
	Sunshine ...	1 * 0	2 * 0	1 * 0	1 * 0	1 * 2	2 * 2	2 * 1	1 * 0	2 * 3	1 * 3	1 * 4	0 * 2

PAST SEASONS.

WINTER, 1912-13. Dec. 1st-March 1st. 13 weeks.	Warmth ...	5 * 3	5 * 3	6 * 2	5 * 1	6 * 2	7 * 1	8 * 3	6 * 1	6 * 2	9 * 1	8 * 3	8 * 1
	Rainfall ...	6 * 5	5 * 3	4 * 3	5 * 2	5 * 3	5 * 3	5 * 3	5 * 3	7 * 3	6 * 2	6 * 2	5 * 4
	Sunshine ...	1 * 6	0 * 7	1 * 8	2 * 7	2 * 9	3 * 6	0 * 9	2 * 4	1 * 8	0 * 8	0 * 8	1 * 9
SPRING, 1913. Mar. 2nd-May 31st. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 2	5 * 2	4 * 2	4 * 2	2 * 4	4 * 3	3 * 2	1 * 3	1 * 3	3 * 4
	Rainfall ...	6 * 2	5 * 3	5 * 4	5 * 2	7 * 3	6 * 1	8 * 2	7 * 3	6 * 1	7 * 2	6 * 1	7 * 3
	Sunshine ...	3 * 3	2 * 3	1 * 4	2 * 6	2 * 5	2 * 4	1 * 8	1 * 4	0 * 6	2 * 5	1 * 6	0 *10
SUMMER, 1913. June 1st-Aug. 30th. 13 weeks.	Warmth ...	4 * 3	2 * 4	3 * 5	3 * 5	3 * 5	2 * 6	3 * 4	3 * 5	5 * 5	3 * 5	4 * 4	1 * 6
	Rainfall ...	2 * 8	1 * 9	0 *10	1 * 5	0 * 9	1 * 9	2 * 7	3 * 8	1 *11	1 * 8	2 * 9	1 * 5
	Sunshine ...	4 * 5	4 * 4	4 * 7	2 * 7	2 * 8	1 * 7	5 * 5	6 * 5	3 * 4	6 * 6	5 * 4	3 * 9
AUTUMN, 1913. Aug. 31st-Nov. 29th. 13 weeks.	Warmth ..	6 * 0	8 * 0	8 * 0	10 * 0	11 * 0	11 * 0	6 * 0	9 * 0	9 * 0	8 * 0	9 * 2	11 * 0
	Rainfall ...	4 * 4	2 * 4	4 * 6	5 * 6	5 * 4	5 * 5	2 * 4	4 * 6	3 * 5	3 * 2	7 * 1	4 * 3
	Sunshine ...	5 * 4	5 * 6	6 * 3	4 * 1	4 * 3	5 * 2	1 * 4	6 * 3	4 * 6	2 * 5	2 * 6	2 * 4

(43—19.) Wt. 196—786. 450. 1/14. D & S. G. 17/36.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*49*	*1st*	*27*	*28th*	*42·4*	*34·0*	*38·4*	—	*1*	*30*	•	•	38·5	•	•	•	*7*	*1·16*	—	*0·0*	—	*0*	—	*Baltasound.*
a, Islands .. *a* Lerwick	49	1st	30	28, 29	43·9	35·3	39·8	0·0	5	26	•	•	•	•	•	•	7	1·40	+ 0·39	0·6	- 0·3	10	- 4	Deerness.
a Stornoway	48	1-3	28	31st	43·1	35·0	39·2	- 0·3	3	26	•	•	•	•	•	•	5	0·73	- 0·61	0·9	+ 0·1	14	+ 1	Stornoway.
a Castlebay, Barra Isd.‡ ..	*49*	*1-3*	*34*	*29, 30*	*45·4*	*39·0*	*42·3*	*+ 0·4*	*15*	*8*	•	•	•	•	•	•	*5*	*0·21*	—	*1·1*	—	*16*	—	*Castlebay.*
a Wick	48	1, 2	25	31st	42·6	32·0	37·5	- 1·0	2	37	•	•	•	•	•	•	5	0·52	- 0·11	•	•	•	•	
b, Mainland. *p* Strathpeffer ..	50	2nd	22	31st	42·3	33·1	37·9	+ 0·8	1	33	•	•	•	•	•	•	2	0·16	- 0·61	1·4	+ 0·4	21	+ 6	Strathpeffer.
p Glencarron ..	47	2nd	18	30, 31	39·5	29·6	34·8	- 2·1	0	50	•	•	•	•	•	•	5	1·81	- 0·55	•	•	•	•	
p Fort Augustus..	50	2nd	15	31st	39·1	30·6	35·0	- 3·0	0	49	•	•	•	•	•	•	4	0·50	- 0·79	0·4	0·0	6	0	Fort Augustus.
p Fort William ..	49	2nd	18	31st	40·0	31·1	35·7	- 4·0	0	44	•	•	•	•	•	•	4	0·72	- 1·49	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	49	2nd	27	31st	41·4	33·4	37·6	- 0·8	0	31	7	7	34·4	-2·4	39·7	+0·3	—	—	—	0·8	—	12	—	Crathes S.
a Nairn	50	2nd	21	31st	41·9	30·7	36·5	- 1·0	0	39	•	•	•	•	•	•	5	0·95	+ 0·38	*0·9*	—	*14*	—	*Gordon Castle*
a Aberdeen ..	47	2, 3	20	31, 1	40·4	29·1	35·0	- 3·9	0	49	•	•	•	•	41·3	-0·1	4	0·14	- 0·33	1·4	—	21	—	Nairn.
a Balmoral ..	47	2nd	10	31st	39·9	24·4	32·5	- 2·0	0	67	6	7	•	•	•	•	5	0·32	- 0·28	1·7	+ 0·4	26	+ 6	Aberdeen.
p Crieff	52	2nd	23	31st	41·4	30·0	35·9	- 1·5	0	43	•	•	•	•	•	•	2	0·64	- 0·07	•	•	•	•	Balmoral.
a Leith	51	2nd	22	1st	42·7	31·4	37·3	- 2·0	2	39	•	•	•	•	•	•	3	0·15	- 0·78	3·1	—	46	—	Balruddery.
p West Linton .. S	46	2nd	10	31, 1	38·1	21·7	30·2	- 6·4	0	83	•	•	•	•	•	•	0	0·00	- 0·40	•	•	•	•	
p Marchmont .. S	47	2nd	22	31st	38·1	29·0	33·7	- 3·0	0	58	7	15	36·1	-0·6	•	•	3	0·13	—	*1·7*	—	*24*	—	*West Linton*
																	3	0·78	+ 0·22	1·5	+ 0·3	21	+ 4	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	48	2nd	16	31, 1	41·6	28·6	35·4	- 3·1	0	46	7	21	34·5	-2·8	41·2	+0·7	3	0·72	+ 0·13	3·0	—	43	—	Cockle Park
a Shields	48	2, 3	24	31, 1	41·1	29·6	35·6	- 3·4	0	45	•	•	•	•	•	•	3	0·55	+ 0·14	•	•	•	•	
a, North .. *p* Durham	47	2,3	16	31st	38·3	28·6	33·6	- 4·0	0	59	7	10	•	•	•	•	3	0·73	+ 0·33	2·6	+ 1·2	37	+17	Durham.
p Rounton	44	2nd	9	31st	36·1	24·4	30·5	- 7·0	0	81	7	12	36·5	•	•	•	5	1·25	+ 0·84	•	•	•	•	Rounton.
a West Wilton	*46*	*3rd*	*16*	*31, 1*	*39·0*	*27·4*	*33·4*	—	*0*	*60*	5	11	37·7	•	43·0	•	*3*	*0·30*	—	•	•	•	•	*West Wilton.*
p Scarborough	46	2nd	28	1st	40·6	32·6	36·8	- 2·3	0	36	•	•	•	•	43·6†	•	3	0·48	0·00	3·1	—	43	—	Scarborough.
p York	45	2, 3	15	1st	38·0	25·4	32·0	- 6·2	0	70	•	•	38·8	-1·0	44·6	+1·3	3	0·59	+ 0·18	2·0	+ 1·1	27	+16	York.
											7	19	37·6	-1·1	45·3	+1·4	—	—	—	*2·1*	—	*29*	—	*Hull.*
a Spurn Head	44	3rd	30	29, 1	39·6	33·0	36·4	- 3·0	0	39	•	•	•	•	•	•	3	0·17	- 0·19	*3·1*	—	*43*	—	*Spurn Head.*
b, South .. *a* Lincoln	44	3rd	21	1, 2	37·4	25·3	31·6	- 5·9	0	73	•	•	35·5	-3·5	44·5	+1·2	3	0·34	- 0·07	•	•	•	•	Lincoln.
a Fulbeck	44	3rd	17	1st	35·9	23·7	30·0	- 7·4	0	84	6	10	37·0	-2·8	45·4	+1·1	3	0·50	+ 0·07	2·6	—	35	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·4	—	32	—	Skegness.
3. ENGLAND, E.											6	22	36·7	-3·0	44·0	+0·2	—	—	—	*2·2*	—	*29*	—	*Lowestoft.*
p Cromer	45	3rd	29	1st	41·0	32·1	36·7	- 0·7	0	37	•	•	•	•	•	•	4	0·14	—	1·9	—	26	—	Cromer.
p Little Massingham ..	41	2,3	21	1st	37·9	28·7	33·5	- 3·9	0	60	7	17	•	•	•	•	4	0·16	- 0·34	2·9	+ 1·5	38	+20	Lit. Massingham
a, North .. *a* Yarmouth	43	3rd	26	2nd	39·1	30·0	34·7	- 3·5	0	51	•	•	37·6	-1·8	44·0	0·0	5	0·44	0·00	1·8	—	24	—	Yarmouth.
a Norwich	44	3rd	24	1, 2	38·4	28·0	33·4	- 4·7	0	60	7	16	35·9	•	•	•	4	0·21	—	*1·6*	—	*21*	—	*Norwich.*
p Geldeston	41	3rd	24	1, 2	37·3	27·9	32·8	- 5·6	0	64	•	•	•	•	•	•	5	0·33	- 0·09	2·3	+ 0·7	30	+ 9	Geldeston.
p Cambridge	44	2, 3	21	1st	38·1	28·6	33·5	- 4·5	0	60	7	21	36·8	-2·9	44·5	+0·3	3	0·06	- 0·27	3·0	+ 1·6	40	+21	Cambridge.
a Felixstowe	*45*	*3rd*	*25*	*1st*	*37·6*	*29·0*	*33·5*	*- 5·6*	*0*	*60*	•	•	•	•	•	•	*2*	*0·15*	—	*2·8*	—	*37*	—	*Felixstowe.*
a Clacton-on-Sea ..	44	3rd	27	1st	38·0	30·9	34·2	- 4·6	0	55	5	21	38·5	-3·1	45·8	-0·5	2	0·06	—	2·9	—	38	—	Clacton.
b, South .. *a* Rothamsted ..	45	2nd	23	1st	38·4	27·9	33·4	- 4·4	0	60	•	•	•	•	•	•	3	0·06	- 0·44	3·5	+ 2·1	46	+27	Rothamsted.
a Shoeburyness	*46*	*3rd*	*27*	*1st*	*38·9*	*30·1*	*34·7*	*- 4·4*	*0*	*51*	6	21	37·9	-3·2	•	•	*1*	*0·01*	*- 0·30*	*3·2*	—	*42*	—	*Southend.*
p Tottenham	46	2nd	28	1st	39·7	32·7	36·3	- 2·8	0	40	5	24	•	•	46·7	+1·0	0	0·00	—	2·5	—	33	—	Tottenham.
4. MIDLAND COUNTIES.											5	15	37·0	-2·5	44·4	+1·8	—	—	—	*1·5*	—	*21*	—	*Huddersfield.*
a Harrogate	46	3rd	20	31st	37·3	27·3	32·5	- 4·9	0	67	6	13	38·0	-1·7	42·3	+0·8	5	0·89	+ 0·33	3·0	—	41	—	Harrogate.
a Bawtry	47	3rd	16	31st	37·0	25·6	31·5	- 6·4	0	74	7	- 4	37·5	•	43·4	•	3	0·50	+ 0·10	1·9	—	26	—	Worksop.
p Buxton	*43*	*2, 3*	*14*	*31st*	*37·0*	*26·9*	*32·2*	*- 3·6*	*0*	*69*	5	8	38·0	-1·0	44·7	+1·1	*4*	*0·43*	*- 0·71*	*1·4*	—	*19*	—	*Buxton.*
a, East .. *a* Nottingham	47	2nd	20	1st	39·1	26·6	33·1	- 5·1	0	62	7	16	34·0	-4·5	42·5	+0·6	4	0·18	- 0·27	0·8	—	11	—	Nottingham.
p Birmingham, Edgbsn.	46	2nd	25	31st	38·4	30·4	34·6	- 3·4	0	52	6	12	38·7	-2·3	46·5	+1·1	2	0·12	- 0·37	0·9	—	12	—	Birmingham.
a Raunds	44	2, 3	18	1st	37·7	24·6	31·4	- 6·2	0	74	7	12	39·6	•	48·0	•	3	0·27	—	•	•	•	•	Raunds.
p Oxford	45	3rd	23	1st	38·6	28·9	33·9	- 5·1	0	57	7	17	•	•	•	•	4	0·10	- 0·33	2·9	+ 1·5	38	+19	Oxford.
											5	19	38·1	-1·1	44·8	+1·5	—	—	—	2·5	—	34	—	Sheffield.
a Cheadle	45	2, 3	22	31, 1	40·3	28·4	34·6	- 2·6	0	52	5	17	•	•	•	•	2	0·03	- 0·59	•	•	•	•	Cheadle.
p Shrewsbury ..	49	2nd	18	31st	41·0	28·4	35·0	- 4·6	0	49	3	22	•	•	•	•	4	0·09	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	49	2, 3	19	1st	40·6	26·0	33·6	- 5·1	0	59	6	12	•	•	•	•	1	0·05	- 0·46	•	•	•	•	Hereford.
a Cirencester ..	51	3rd	19	1st	39·2	25·7	32·7	- 5·3	0	65	6	18	38·9	•	45·1	•	1	0·02	- 0·55	2·7	+ 1·3	35	+17	Cirencester.
a Bath	47	2, 3	24	1st	41·6	28·4	35·3	- 4·7	0	47	•	•	37·8	-4·3	45·3	-1·1	2	0·04	- 0·57	2·8	—	36	—	Bath.
5. ENGLAND, S.E.																								
p Kew	45	2nd	28	1st	38·9	31·9	35·5	- 3·7	0	46	5	22	38·6	-2·9	47·6	+1·9	—	—	—	•	•	•	•	Canterbury.
a Marlborough ..	42	3rd	17	1st	37·3	24·3	31·1	- 6·8	0	76	7	16	37·2	-3·4	45·6	+0·3	1	0·01	- 0·39	3·1	+ 1·9	40	+24	Kew.
a Margate	45	3rd	31	30th	41·1	33·9	37·6	- 2·3	0	31	7	15	•	•	46·4	•	2	0·07	- 0·55	2·1	+ 0·9	27	+12	Marlborough.
a Wisley, Surrey ..	44	2, 3	26	1st	38·3	29·7	34·2	- 5·3	0	55	3	30	42·3	+0·8	47·9	+3·5	2	0·41	- 0·01	0·6	- 0·9	8	-12	Margate.
											7	13	36·7	-3·9	44·4	-0·1	1	0·01	—	3·3	—	43	—	Wisley.
p Salisbury (Wilton) ..	44	3rd	21	31st	38·6	26·7	32·9	- 5·4	0	64	4	24	37·1	-4·1	46·5	+0·6	—	—	—	3·4	—	43	—	Worthing.
a Tunbridge Wells ..											7	14	37·9	•	•	•	5	0·06	- 0·64	•	•	•	•	Salisbury.
a Dungeness	46	3rd	25	2nd	39·0	28·4	33·9	- 6·4	0	57	•	•	•	•	•	•	—	—	—	•	•	•	•	Tunbridge Wells.
p Hastings..	47	3rd	28	29th	39·7	32·0	36·0	- 4·4	0	42	•	•	•	•	•	•	2	0·40	- 0·05	1·3	—	17	—	Littlestone.
p Southampton	48	3rd	27	1st	40·3	30·9	35·8	- 4·7	0	43	5	22	37·9	•	45·9	•	2	0·07	- 0·51	*2·6*	*+ 0·7*	*33*	*+ 9*	*Hastings.*
a Ventnor	49	3rd	28	31st	41·0	31·6	36·5	- 6·2	0	39	7	22	•	•	•	•	1	0·04	- 0·59	3·2	+ 1·6	41	+21	Southampton.
											•	•	•	•	•	•	1	0·04	- 0·56	4·0	+ 2·3	50	+29	Ventnor.
											7	13	40·4	-2·3	48·9	+0·1	—	—	—	*3·4*	—	*43*	—	*Portsmouth.*
LONDON.											•	•	40·4	•	47·6	•	—	—	—	2·5	+ 0·8	32	+10	Eastbourne.
											•	•	38·2	•	43·9	•	—	—	—	*4·0*	—	*51*	—	*Bournemouth.*
											•	•	•	•	•	•	—	—	—	•	•	•	•	*Brighton.*
a Westminster	*46*	*2nd*	*30*	*31-2*	*39·6*	*31·1*	*35·5*	*- 3·9*	*0*	*46*	6	27	•	•	•	•	*1*	*0·01*	*- 0·39*	*0·5*	*0·0*	*7*	*0*	*Westminster.*
a Greenwich	*45*	*2nd*	*27*	*2nd*	*39·1*	*30·3*	*34·9*	*- 4·9*	*0*	*50*	7	18	•	•	•	•	*2*	*0·02*	*- 0·38*	*1·2*	*+ 0·1*	*16*	*+ 1*	*Greenwich.*
a Hampstead	*45*	*2nd*	*22*	*31st*	*37·4*	*28·3*	*33·0*	—	*0*	*63*	7	9	•	•	•	•	*0*	*0·00*	—	*3·0*	—	*39*	—	*Hampstead.*
a Camden Square ..	*46*	*2nd*	*27*	*1st*	*38·7*	*30·0*	*34·5*	—	*0*	*53*	6	23	•	•	•	•	*0*	*0·00*	—	*1·8*	—	*23*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	48	1st	20	30th	41·7	29·9	36·0	- 3·7	0	42	•	•	•	•	•	•	4	0·51	- 0·66	•	•	•	•	
p Glasgow	48	2nd	24	31st	40·4	33·9	37·3	- 1·7	0	33	5	18	•	•	•	•	3	0·05	- 0·78	1·1	+ 0·5	16	+ 8	Glasgow.
p Rothesay .. S	49	2nd	25	31st	41·7	33·9	38·0	- 2·0	0	28	5	22	37·6	•	44·4	+1·1	4	0·27	- 0·80	*2·2*	—	*32*	—	*Rothesay.*
a Kilmarnock ..	48	2nd	20	30, 31	41·9	27·7	35·1	- 4·9	0	48	•	•	•	•	•	•	2	0·20	—	*1·1*	—	*16*	—	*Kilmarnock.*
a Colmonell ..	48	2nd	20	31st	42·9	31·0	37·2	- 3·5	3	41	4	18	•	•	•	•	3	0·23	- 0·87	•	•	•	•	
p Dumfries ..	48	2nd	20	31st	39·7	29·6	34·9	- 3·7	0	50	6	19	35·7	•	42·6	•	0	0·00	- 0·84	*2·3*	—	*33*	—	*Dumfries.*
p Cally, Gatehouse ..	47	3rd	18	31st	40·6	28·7	34·9	- 3·8	0	50	•	•	•	•	•	•	3	0·17	- 0·95	•	•	•	•	
b. I. OF MAN.																								
p Douglas	48	2nd	30	31st	42·1	34·9	38·6	- 2·9	0	26	4	24	•	•	•	•	3	0·25	- 0·70	2·6	+ 1·2	36	+16	Douglas.
											6	10	36·3	-3·2	44·4	+1·8	—	—	—	*0·5*	—	*7*	—	*Burnley.*
7. *a*. ENGLAND, N.W.											•	•	•	•	•	•	—	—	—	1·8	—	24	—	Hoylake.
p Aspatria	46	2nd	21	31st	39·1	29·6	34·5	- 3·9	0	53	5	11	38·1	•	45·7	•	2	0·07	- 0·68	1·6	—	23	—	Aspatria.
p Newton Rigg ..	46	2nd	16	31st	36·7	26·9	32·0	- 5·0	0	70	5	13	38·3	-1·1	43·3	+1·4	4	0·13	- 0·68	1·4	—	20	—	Newton Rigg.
p Stonyhurst	46	2nd	21	31st	39·3	30·1	34·9	- 3·4	0	50	6	11	•	•	•	•	2	0·41	- 0·57	1·7	+ 0·8	23	+11	Stonyhurst.
p Blackpool	46	2, 3	23	31st	41·9	33·7	38·0	- 1·3	0	28	5	18	41·2	•	47·2	•	1	0·10	- 0·54	2·4	+ 1·4	32	+19	Blackpool.
p Manchester (Whit. Pk.)	46	2nd	25	31, 1	39·4	31·6	35·7	- 3·6	0	44	•	•	•	•	•	•	1	0·08	- 0·70	*0·1*	—	*1*	—	*Whit. Park.*
a Liverpool (Bidston) ..	47	3rd	29	31st	41·6	33·3	37·6	- 2·7	0	31	•	•	•	•	•	•	2	0·07	- 0·44	*2·3*	—	*31*	—	*Liverpool.*
a Hawarden Bridge ..	49	2, 3	?	?	43·4	?	?	?	?	?	5	11	36·0	-2·7	43·3	+1·3	2	0·12	- 0·32	*2·5*	—	*34*	—	*Southport.*
											5	20	36·8	-2·8	46·3	+2·1	—	—	—	*0·0*	—	*0*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	47	2, 3	27	31st	41·9	34·7	38·4	- 3·7	0	25	•	•	•	•	•	•	2	0·25	- 0·36	1·4	+ 0·1	19	+ 1	Llandudno.
a Holyhead	49	2nd	30	1st	44·7	37·0	41·0	- 1·4	8	20	•	•	•	•	•	•	2	0·10	- 0·67	*1·8*	—	*24*	—	*Holyhead.*
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.
											•	•	•	•	•	•	—	—	—	2·6	—	34	—	Aberdovey.

*. For notes see also opposite page. † At 3 feet.

‡ New averages based on a comparison of the values for the five years 1908-1912 with the corresponding values for Stornoway.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		in.	in.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	•	•	•	2·4	—	32	—	
a Llangammarch Wells	46	2,3	11	31,1	40·4	25·4	33·2	- 4·6	0	62	?	7	37·7	-3·8	46·5	+0·7	2	0·21	—	1·4	—	18	—	Aberystwyth.
a Pembroke	50	3rd	30	31,1	45·0	36·3	40·8	- 2·8	8	23	•	•	•	•	•	•	3	0·50	- 0·34	2·3	+ 0·8	30	+10	Llangammarch
p Cardiff	46	2,3	25	1st	40·9	30·9	36·1	- 3·5	0	41	7	23	37·8	-3·2	45·7	+0·8	2	0·15	- 0·79	*4·0*	—	*52*	—	Pembroke.[Wells
b, ENGLAND, S.W.																								*Cardiff.*
a Clifton	48	3rd	25	1, 2	40·7	29·9	35·5	- 5·0	0	46	7	22	•	•	•	•	2	0·04	- 0·67	*3·1*	—	*40*	—	
a Shaftesbury	42	3rd	25	31,1	36·4	28·3	32·5	- 5·9	0	67	•	•	36·6	•	45·0	•	2	0·02	- 0·62	•	•	•	•	*Clifton.*
a Arlington	46	3rd	22	1st	40·0	31·4	35·9	- 4·1	0	43	•	•	•	•	•	•	3	0·14	- 1·11	•	•	•	•	Shaftesbury.
a Newquay	*49*	*2, 3*	*25*	*1st*	*44·4*	*35·9*	*40·3*	—	*7*	*24*	?	18	42·1	•	•	•	*4*	*0·59*	—	2·5	+ 0·9	31	+11	Arlington.
a Cullompton	47	2, 3	20	1st	41·3	27·9	34·9	- 5·4	0	50	6	12	40·0	•	•	•	4	0·20	- 0·61	3·3	+ 2·0	42	+25	Newquay.
a Portland	48	3rd	31	31st	42·3	34·9	38·8	- 3·9	1	26	•	•	•	•	•	•	0	0·00	—	*4·5*	—	*56*	—	Cullompton.
p Plymouth	47	2, 3	26	1st	42·1	33·7	38·1	- 4·9	0	31	4	20	38·6	-5·4	•	•	3	0·14	- 0·76	3·6	+ 2·0	45	+25	*Weymouth.*
a Falmouth	48	2, 3	28	31-2	43·0	32·6	38·0	- 6·3	3	35	3	22	•	•	•	•	4	0·63	- 0·57	3·1	+ 1·3	39	+17	Plymouth.
9. IRELAND. N.																								Falmouth.
a, West .. *a* Malin Head	48	2, 3	30	29th	44·4	35·4	40·1	- 1·4	7	26	•	•	•	•	•	•	5	0·33	- 0·34	•	•	•	•	• •
a Blacksod Point ..	50	1-3	31	31st	46·6	37·3	42·1	- 1·0	20	13	•	•	•	•	•	•	6	0·60	- 0·63	•	•	•	•	• •
p Markree Castle ..	49	2, 3	17	31st	41·7	27·4	34·8	- 5·2	0	50	7	12	39·8	•	46·6	•	3	0·45	- 0·50	1·7	+ 0·5	23	+ 7	Markree Castle.
a Birr Castle	48	3rd	17	1st	38·0	26·7	32·6	- 7·5	0	66	•	•	•	•	•	•	3	0·19	- 0·49	*1·9*	+ *0·4*	*26*	+ *6*	*Birr Castle.*
b, East .. *p* Armagh	48	2nd	17	31st	39·0	28·0	33·7	- 6·1	0	58	5	12	38·3	-3·0	45·0	+0·5	2	0·26	- 0·34	1·9	+ 0·6	26	+ 8	Armagh.
a Donaghadee	48	2nd	28	1st	42·7	33·9	38·5	- 2·6	2	30	•	•	•	•	•	•	2	0·10	- 0·54	•	•	•	•	• •
											5	19	39·2	-2·5	45·6	+0·7	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											5	16	•	•	•	•	—	—	—	2·3	+ 0·6	31	+ 8	Phœnix Park.
a, East .. *p* Dublin, City	48	2nd	26	31st	39·4	32·1	35·9	- 6·2	0	43	4	21	•	•	•	•	1	0·02	- 0·47	•	•	•	•	Dublin City.
a Kilkenny	49	3rd	18	1st	39·6	24·6	32·4	- 8·2	0	67	•	•	•	•	•	•	2	0·04	- 0·72	•	•	•	•	• •
a Waterford	48	3rd	21	1st	40·9	27·3	34·4	- 7·4	0	53	•	•	•	•	•	•	0	0·00	- 0·94	•	•	•	•	• •
a Carrick-on-Suir ..	*46*	*2, 3*	*24*	*31st*	*39·7*	*31·6*	*35·8*	—	*0*	*43*	6	17	•	•	•	•	*3*	*0·04*	—	*3·6*	—	*47*	—	*Carrick-on-Suir.*
a Birr Castle	48	3rd	17	1st	38·0	26·7	32·6	- 7·5	0	66	•	•	•	•	•	•	3	0·19	- 0·49	1·9	+ 0·4	26	+ 6	Birr Castle.
a Foynes	49	2, 3	21	31st	41·3	32·9	37·3	- 5·2	0	33	•	•	•	•	•	•	4	0·42	- 0·51	•	•	•	•	• •
a Cahir	49	3rd	20	31st	40·1	28·9	34·7	- 7·3	0	51	•	•	•	•	•	•	3	0·09	—	•	•	•	•	• •
b, West .. *a* Killarney	51	3rd	23	31st	44·1	30·6	37·6	- 5·3	6	43	•	•	•	•	•	•	4	0·29	- 1·25	•	•	•	•	• •
a Valencia	50	2, 3	26	31, 1	45·7	34·9	40·5	- 4·7	10	29	•	•	•	•	•	•	4	0·29	- 1·09	2·7	+ 1·3	36	+17	Valencia.
a Roche's Point ..	49	3rd	29	31, 1	43·3	33·1	38·4	- 6·8	4	33	•	•	•	•	•	•	7	0·11	- 1·04	2·9	—	38	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	53	3rd	33	31st	46·7	37·7	42·4	- 4·4	21	12	•	•	•	•	•	•	5	0·25	- 0·59	3·7	+ 2·0	46	+25	Scilly.
a Jersey, St. Aubins ..	51	3rd	32	1st	45·1	37·0	41·2	- 2·5	9	21	•	•	•	•	•	•	5	0·19	- 0·61	1·8	- 0·2	22	- 3	St. Heliers.
a Guernsey (Villa Carey)	49	3rd	34	29, 1	44·1	37·4	40·9	- 3·5	6	19	1	28	42·3	-2·9	48·6	+0·3	4	0·16	- 0·72	1·2	- 0·3	15	- 4	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·6 hrs. 46 %; Ramsgate, 1·1 hrs. 14 %; Rhyl, 1·4 hrs. 19 %; Salcombe, 4·3 hrs. 54 %; Tenby, 3·3 hrs. (+1·7) 43 % (+22); Torquay, 4·0 hrs. (+2·2) 50 % (+28).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, January 3rd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	45	44	44·4	+0·3	SCOTLAND, W. ..	Lamlash	46	44	45·2	-1·2
	Kirkwall	44	40	41·1	-0·6		Ballantrae	44	42	43·0	-0·6
	Wick	45	44	44·1	-1·3	ENGLAND, N.W. ..	Port Erin	48	46	46·7	-0·6
SCOTLAND, E. ..	Cromarty	45	37	39·5	-1·3	ENGLAND, S.W. ..	Newquay	49	47	47·8	-0·1
	Pennan Bay	44	42	43·0	+1·9		Scilly	49	48	48·2	—
	Aberdeen, Cove Bay	44	43	43·2	+1·6		Plymouth‡	49	47	47·7	-0·9
ENGLAND, N.E. ..	Burnmouth, Berwick	45	43	44·0	+2·0		Salcombe	48	42	45·7	-2·4
	Scarborough	41	36	38·2	-4·8	IRELAND, N.W. ..	Sheephaven	46	44	44·8	-0·6
ENGLAND, E. ..	Shipwash Lightship	45	41	43·0	-0·1		Teelin	46	39	41·3	-4·3
ENGLAND, S.E. ..	Eastbourne‡	45	39	41·3	-2·4	IRELAND, S.W. ..	Cleggan	46	42	45·2	+0·5
							Seafield	48	40	42·8	-3·7

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The rainfall is measured at the hour of the morning observations and entered to the preceding day.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed average of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIFTY-THIRD WEEK—December 28th to January 3rd, 1914.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.†										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	50	15	41·5	32·4	37·1	− 1·0	0	− 6	34	− 3	5	0	0·83	−0·26	0·8	+0·2	13	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	52	10	40·5	28·7	34·8	− 1·8	0	− 5	50	+ 6	3	− 1	0·39	−0·21	1·7	+0·8	25	+12
2. ENGLAND, N.E.	48	9	38·7	27·9	33·5	− 4·4	0	− 6	60	+23	3	− 1	0·59	+0·17	2·6	+1·5	36	+21
3. ENGLAND, EAST ...	46	21	38·7	29·5	34·3	− 3·1	0	− 8	54	+12	3	− 1	0·16	−0·29	2·6	+1·3	34	+17
4 MIDLAND COUNTIES ...	51	16	38·8	27·1	33·2	− 4·1	0	− 9	62	+20	3	− 1	0·23	−0·32	2·2	+1·1	29	+14
5. ENGLAND, S.E.	49	17	39·4	29·9	34·8	− 4·6	0	− 12	50	+18	2	− 2	0·12	−0·42	2·6	+1·2	33	+16
Western.																		
6. SCOTLAND, WEST ...	49	18	41·4	31·2	36·5	− 2·5	0	− 8	39	+ 8	3	− 2	0·21	−0·88	1·9	+0·9	26	+13
7. ENGLAND, N.W.	49	16	40·6	32·1	36·5	− 2·7	0	− 10	38	+ 8	2	− 2	0·15	−0·53	1·8	+0·9	25	+12
8. ENGLAND, S.W.	50	11	41·2	31·1	36·4	− 4·8	0	− 16	39	+16	3	− 2	0·20	−0·71	2·7	+1·3	34	+16
9. IRELAND, NORTH ...	50	17	42·1	31·5	37·0	− 3·4	0	− 12	35	+10	4	− 1	0·32	−0·49	1·8	+0·6	25	+ 9
10. IRELAND, SOUTH ...	51	17	41·4	30·1	36·0	− 6·3	0	− 20	42	+23	3	− 2	0·16	−0·89	2·5	+1·0	32	+13
11. ENGLISH CHANNEL ...	53	32	45·3	37·4	41·5	− 3·6	9	− 17	19	+10	5	0	0·20	−0·60	2·2	+0·3	28	+ 4

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 5 Weeks, November 30th, 1913 to January 3rd, 1914.

0. SCOTLAND, NORTH ...	57	14	*	*	*	*	52	+ 12	108	−51	27	+ 1	7·59	+1·20	0·4	−0·2	7	− 3
Eastern.																		
1. SCOTLAND, EAST ...	59	5	*	*	*	*	45	+ 10	155	−45	17	− 4	2·59	−0·65	1·3	+0·3	19	+ 4
2. ENGLAND, N.E.	56	9	*	*	*	*	63	+ 22	118	−44	11	− 7	1·14	−1·30	1·3	+0·1	18	+ 2
3. ENGLAND, EAST ...	57	21	*	*	*	*	75	+ 28	112	−73	14	− 6	0·78	−1·41	1·5	+0·1	20	+ 2
4. MIDLAND COUNTIES ...	58	16	*	*	*	*	75	+ 24	121	−68	14	− 5	1·32	−1·35	1·1	−0·1	14	− 1
5. ENGLAND, S.E.	58	17	*	*	*	*	93	+ 18	94	−39	13	− 7	1·70	−1·15	1·5	+0·1	20	+ 1
Western.																		
6. SCOTLAND, WEST ...	57	18	*	*	*	*	57	+ 1	94	−33	23	− 1	4·59	−1·34	1·1	+0·2	15	+ 2
7. ENGLAND, N.W.	57	16	*	*	*	*	76	+ 17	63	−66	17	− 4	2·86	−0·83	0·9	−0·1	13	− 1
8. ENGLAND, S.W.	56	11	*	*	*	*	106	+ 10	73	−20	19	− 4	3·29	−1·69	1·4	−0·1	18	− 1
9. IRELAND, NORTH ...	57	17	*	*	*	*	86	+ 19	68	−44	22	− 3	3·94	−0·30	0·9	−0·3	13	− 4
10. IRELAND, SOUTH ...	57	17	*	*	*	*	98	− 13	71	−14	20	− 4	2·74	−2·43	1·1	−0·4	15	− 5
11. ENGLISH CHANNEL ...	56	30	*	*	*	*	155	0	46	+18	20	− 5	3·64	−0·66	1·4	−0·5	17	− 6

THE YEAR.—Aggregates, &c., for the Period of 53 Weeks, December 29th, 1912, to January 3rd, 1914.

0. SCOTLAND, NORTH ...	78	14	*	*	*	*	2,250	+132	568	−265	236	−16	51·57	−1·83	2·7	−0·3	23	− 2
Eastern.																		
1. SCOTLAND, EAST ...	80	5	*	*	*	*	2,401	+ 43	813	−159	195	−12	26·67	−4·70	3·3	−0·3	27	− 3
2. ENGLAND, N.E.	82	9	*	*	*	*	2,868	+221	544	−178	180	− 8	22·04	−3·15	3·4	−0·5	29	− 4
3. ENGLAND, EAST ...	84	20	*	*	*	*	3,327	+272	429	−377	176	− 7	21·10	−2·87	3·9	−0·4	32	− 4
4. MIDLAND COUNTIES ...	83	13	*	*	*	*	3,174	+203	546	−294	178	− 3	26·37	−0·42	3·2	−0·6	27	− 5
5. ENGLAND, S.E.	84	17	*	*	*	*	3,527	+185	321	−260	169	− 7	27·05	−0·46	4·0	−0·3	33	− 3
Western.																		
6. SCOTLAND, WEST ...	80	17	*	*	*	*	2,697	+107	433	−291	217	− 2	43·04	−6·25	3·3	−0·4	27	− 4
7. ENGLAND, N.W.	79	10	*	*	*	*	3,014	+180	366	−211	203	+ 2	34·52	−0·94	3·6	−0·2	30	− 2
8. ENGLAND, S.W.	83	11	*	*	*	*	3,388	+179	296	−149	204	+ 2	39·63	+0·07	3·8	−0·4	32	− 4
9. IRELAND, NORTH ...	77	17	*	*	*	*	2,808	+ 92	387	−141	235	− 2	39·51	+0·40	3·2	−0·2	27	− 2
10. IRELAND, SOUTH ...	79	17	*	*	*	*	3,233	+ 61	336	− 68	237	+24	44·37	+3·12	3·5	−0·4	29	− 3
11. ENGLISH CHANNEL ...	80	30	*	*	*	*	3,976	+158	84	− 57	203	−14	32·09	−1·37	4·4	−0·7	37	− 6

M.O., January 6, 1914.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
† The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground.
‡ In districts 0, 1, and 6, the averages for district temperature are for 20 years only.

FOR OFFICIAL USE.

M.O. 214b2.

THE METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1913.

PART I.

THE

WEEKLY WEATHER REPORT

(VOL. XXX.—NEW SERIES).

SECTION 2.—Daily Synoptic Charts of the Greater Part of the Northern Hemisphere.

Published by the Authority of the Meteorological Committee.

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1914.

PREFACE.

Daily synoptic charts have been published in the Weekly Weather Report since June 11th, 1878. The report then contained small inset maps, two for each day, showing respectively the distributions of pressure and wind and of temperature and weather. The area charted was restricted to Western Europe and only observations taken at the hour of morning observation were shown.

In 1884, when the size of page of the Report was increased from octavo to quarto, a third map was added for each day showing the distribution of barometer and wind at the hour of evening observation also. Simultaneously the scale of the maps was increased to $1 : 5 \times 10^7$, and the area charted was also slightly increased.

In 1889 the area was again enlarged. Henceforward it included the whole of Europe. The scale of the maps and the character of the information shown remained the same.

Except for the use of a blue tint to distinguish the sea from the land no further change was made in the charts to the end of 1911.

Up to that time the maps had been confined to Europe. In 1912 a single map was issued for each day. It included the whole of Europe, the North Atlantic Ocean and a portion of the American Continent and showed the distribution of pressure, wind, temperature and weather over that area at the hour of morning observation. The maps showing the distribution at the hour of evening observation were discontinued. At the same time a map was added showing for each week the mean surface temperature of the waters of the Atlantic Ocean. The scale was $1 : 4 \times 10^7$.

At the beginning of 1913 advantage was taken of the publication by the Russian Meteorological Service in its Daily Report of information for Siberia, to extend the area included in the charts. The maps now embrace nearly the whole of the temperate region of the Northern Hemisphere, the Pacific Ocean being the only part not charted. In addition to the information received at the Office by telegram or radiogram, information abstracted from the Daily Weather Reports of foreign countries is used in the preparation of the charts. The reports most generally consulted are those issued by the meteorological services of the United States of America, Canada, France, Russia and Egypt. The increase in the area charted has rendered necessary a reduction of the scale of the maps from $1 : 4 \times 10^7$ to $1 : 8 \times 10^7$.

A map for each day shows the distribution of pressure, wind, temperature and weather over North America, the North Atlantic Ocean, Europe, Egypt and Siberia at the hour of morning observation. The exact times of the observations are set out on the last page of each weekly issue. An inset map, on the same scale as the main map, shows the distribution over Europe at the hour of evening observation. The maps are accompanied by a brief account of the weather conditions over Europe during the day.

The normal temperature for the month of the surface water of the Atlantic and the adjacent seas is shown by shading on the daily charts. The same scheme of shading is used for the special sea temperature map on the scale $1 : 4 \times 10^7$ on which the temperature of the surface water for the week is shown. The figures indicate the average temperature for each two-degree square as deduced from the ships' logs which reaeh the Office in time for examination.

The Daily Charts included in the present series are issued regularly with the Weekly Weather Report ; the charts for each week are published with the Weekly Weather Report for the succeeding week, so that information received by post from foreign Meteorological Bureaus may be included.

(2334*—19.) Wt. 229—611. 450. 9/14. D & S. G. 17/ 40.

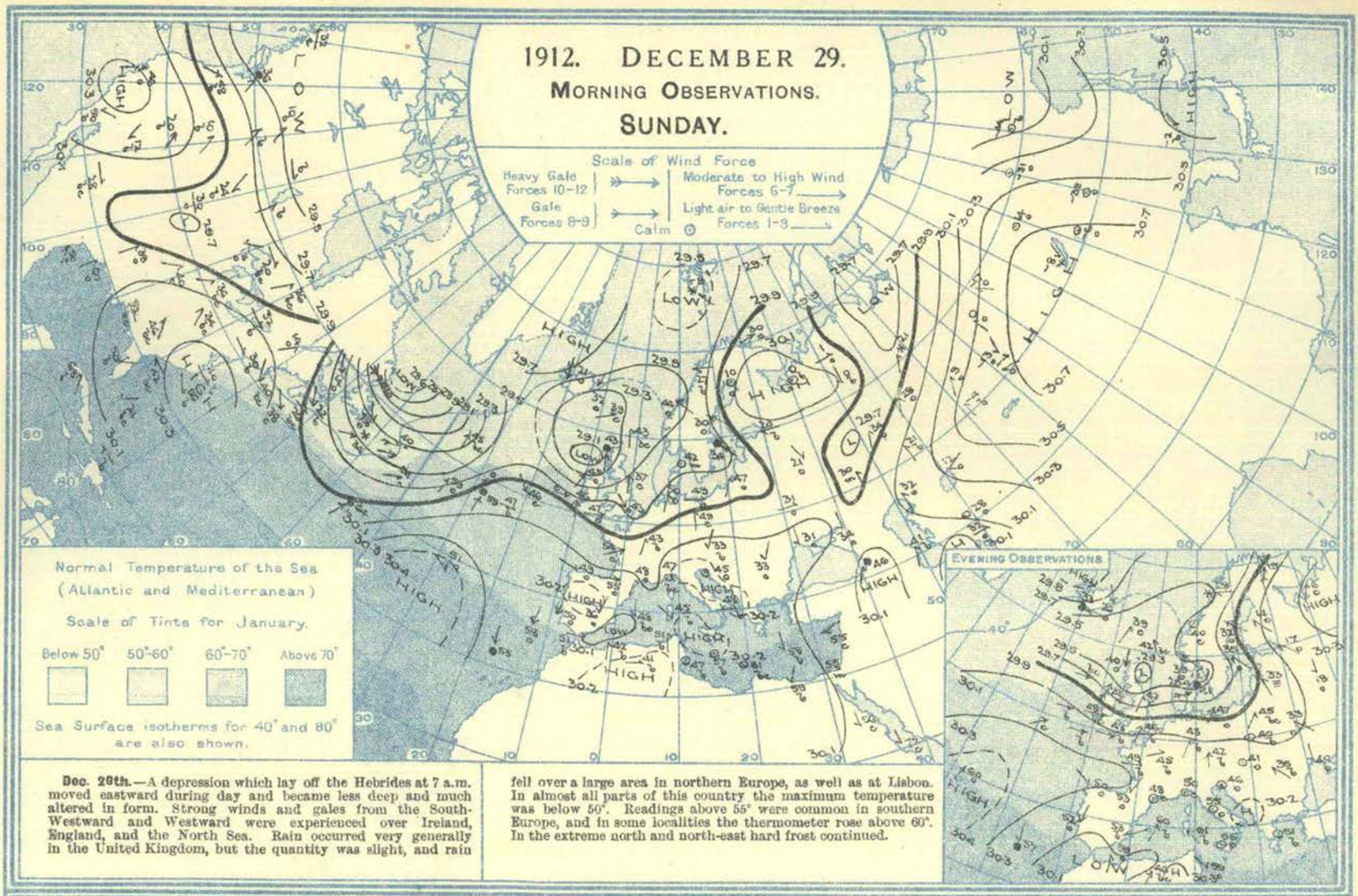
NOTICE TO THE BINDER.

Each weekly issue of the Weekly Weather Report contains a printed sheet and a set of charts. The printed sheets are to be bound together as Section 1 ; the charts as Section 2. They form one or two volumes, as may be ordered.

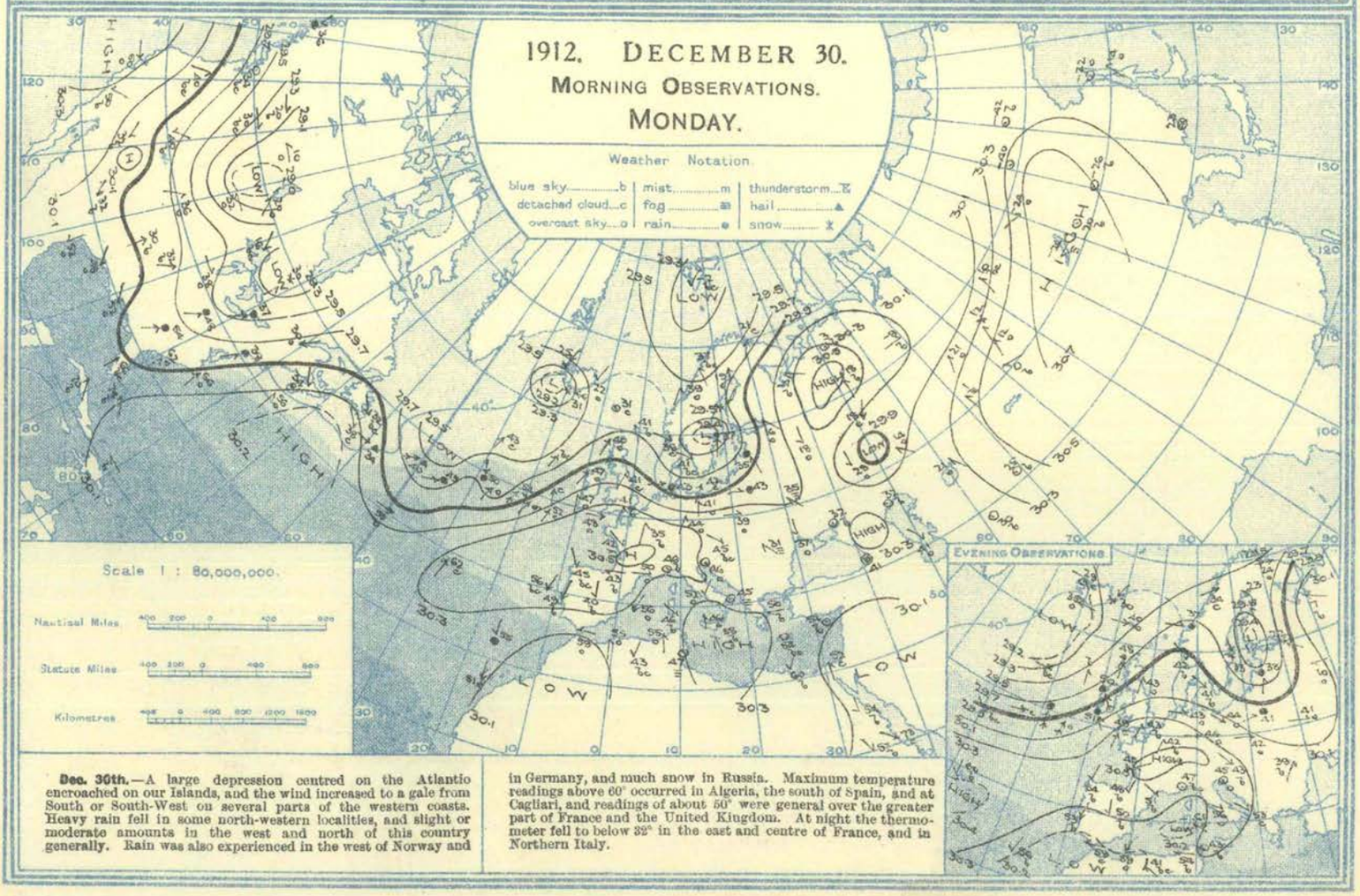
ERRATA.

Appendix i.—1st Quarter, *for* " p. 217 " *read* " 213."
2nd „ „ " p. 211 " „ " 215."
3rd „ „ " p. 213 " „ " 217."
4th „ „ " p. 215 " „ " 219."
Whole Year „ " p. 217 " „ " 221."
Appendix ii.—*For* " pp. 227 to 232 " *read* " 223 to 228."

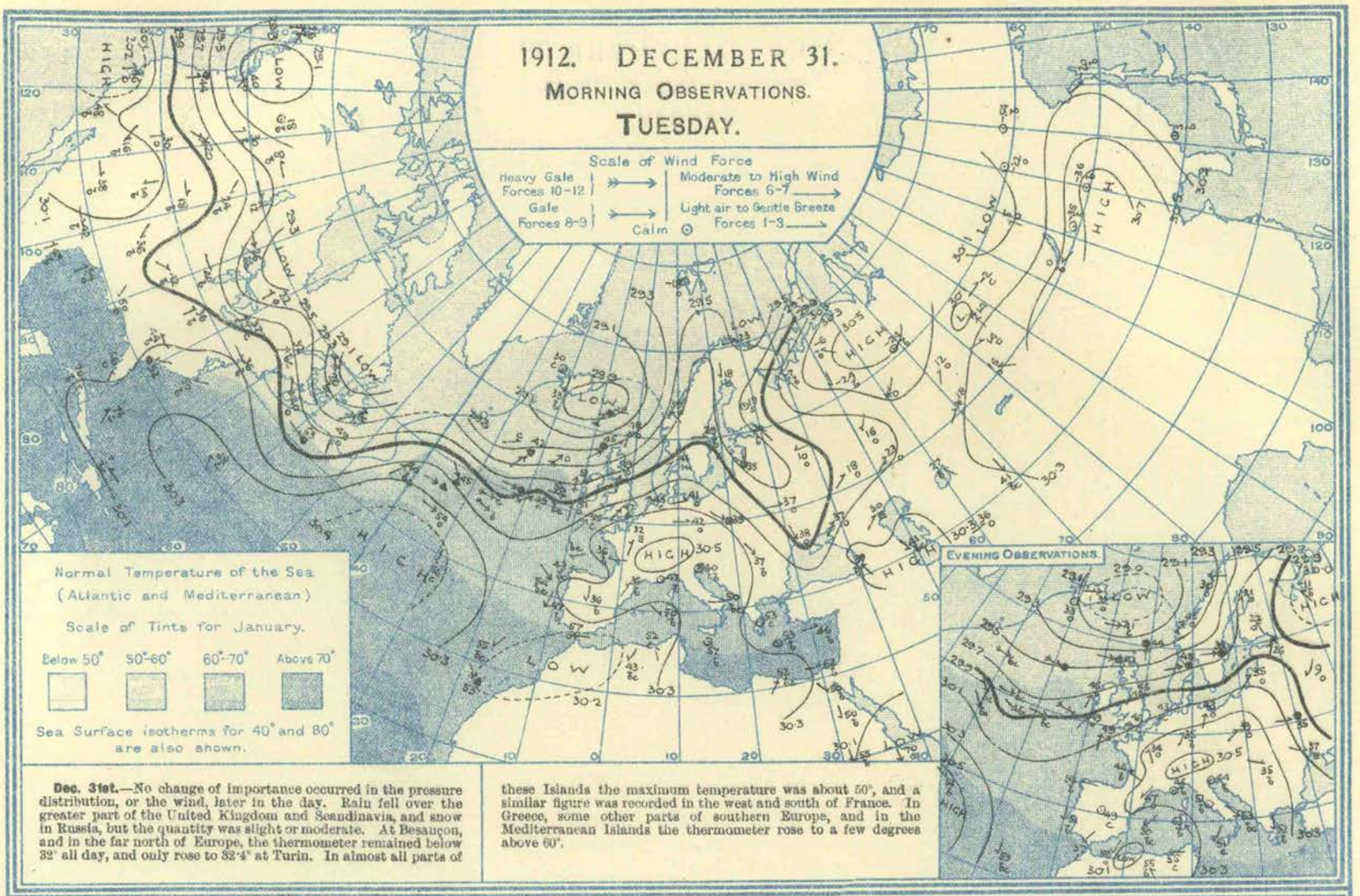
2334*—450.



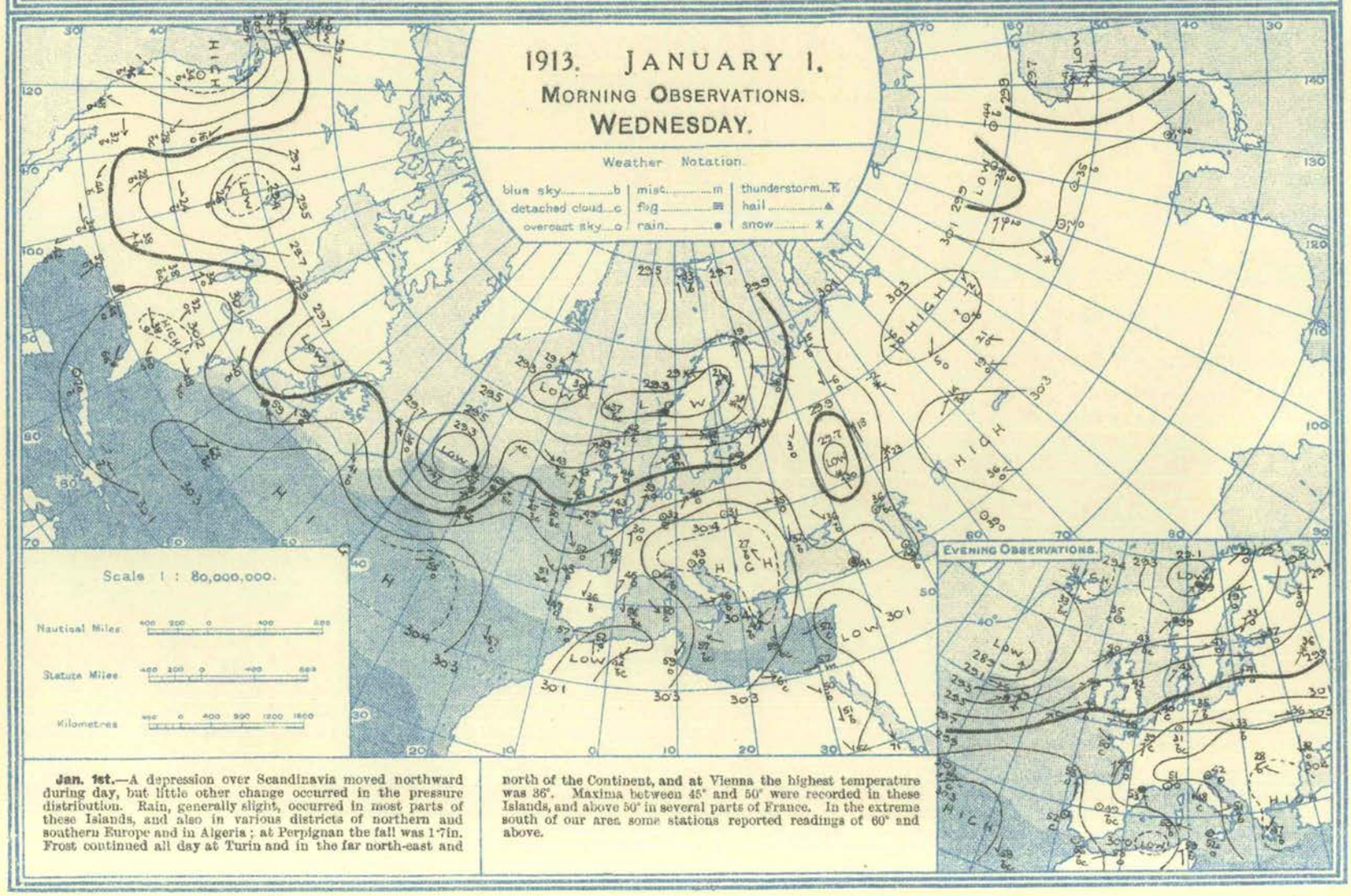
Dec. 29th.—A depression which lay off the Hebrides at 7 a.m. moved eastward during day and became less deep and much altered in form. Strong winds and gales from the South-Westward and Westward were experienced over Ireland, England, and the North Sea. Rain occurred very generally in the United Kingdom, but the quantity was slight, and rain fell over a large area in northern Europe, as well as at Lisbon. In almost all parts of this country the maximum temperature was below 50°. Readings above 55° were common in southern Europe, and in some localities the thermometer rose above 60°. In the extreme north and north-east hard frost continued.



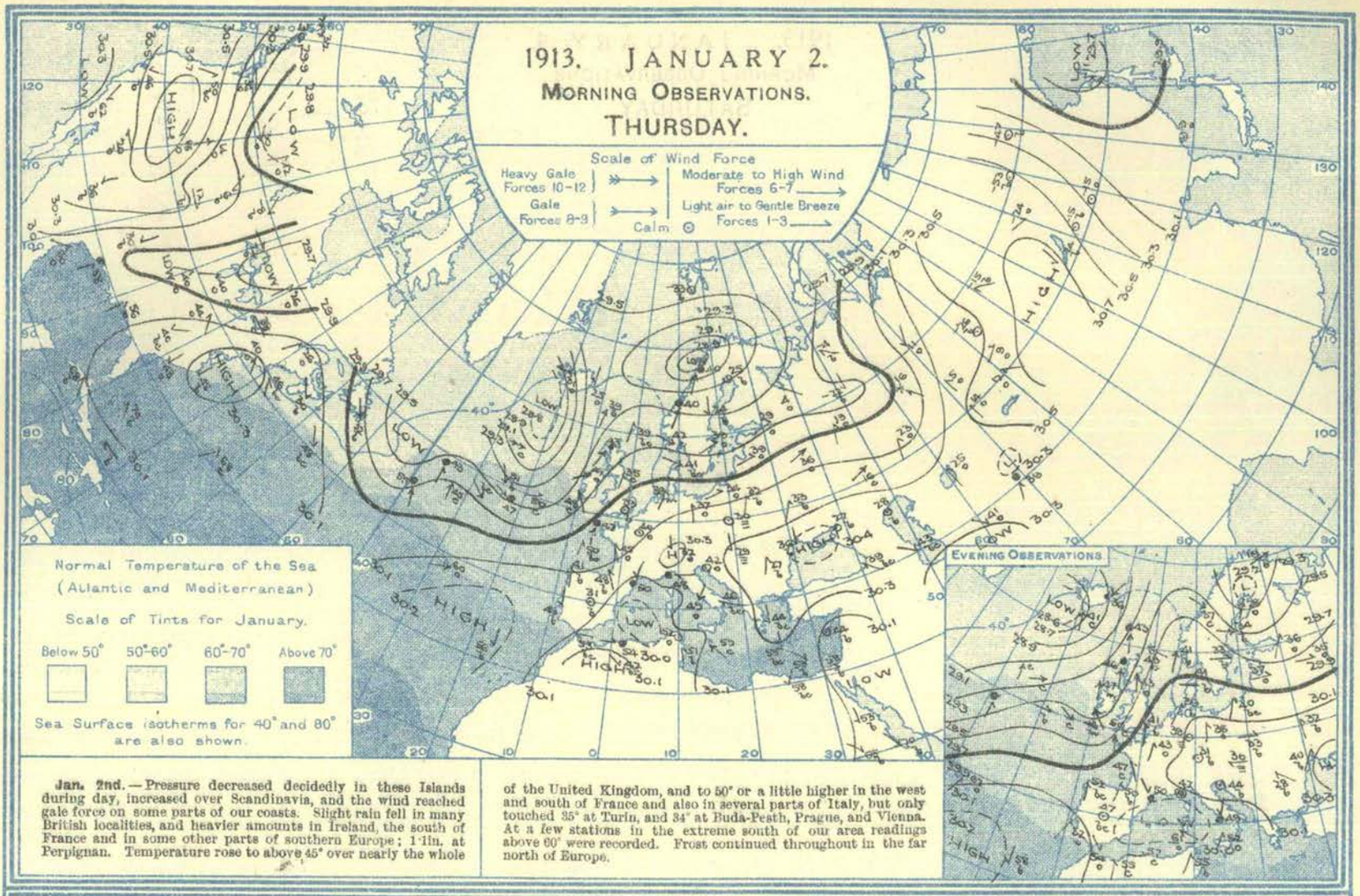
Dec. 30th.—A large depression centred on the Atlantic encroached on our Islands, and the wind increased to a gale from South or South-West on several parts of the western coasts. Heavy rain fell in some north-western localities, and slight or moderate amounts in the west and north of this country generally. Rain was also experienced in the west of Norway and in Germany, and much snow in Russia. Maximum temperature readings above 60° occurred in Algeria, the south of Spain, and at Cagliari, and readings of about 50° were general over the greater part of France and the United Kingdom. At night the thermometer fell to below 32° in the east and centre of France, and in Northern Italy.



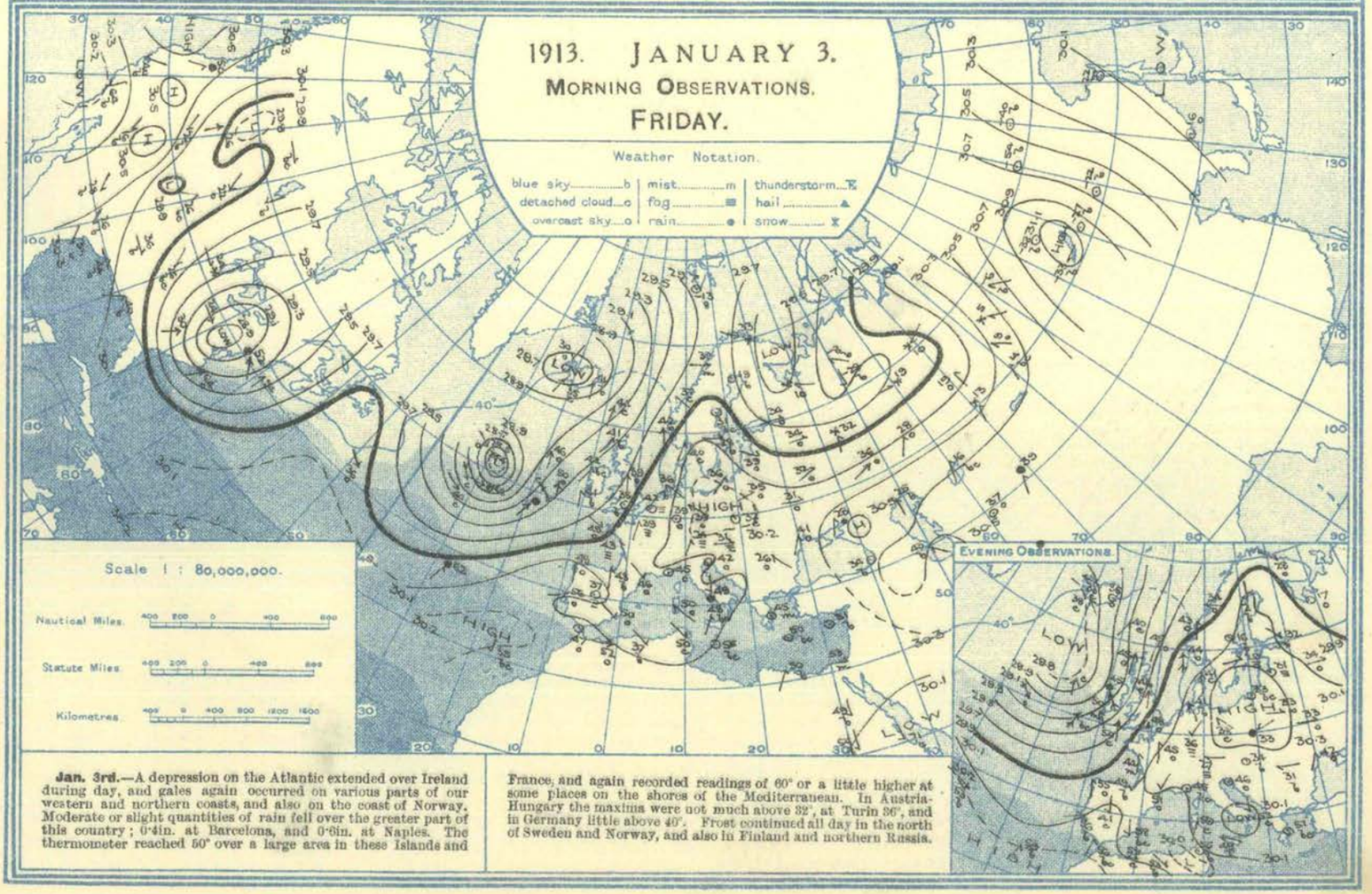
Dec. 31st.—No change of importance occurred in the pressure distribution, or the wind, later in the day. Rain fell over the greater part of the United Kingdom and Scandinavia, and snow in Russia, but the quantity was slight or moderate. At Besançon, and in the far north of Europe, the thermometer remained below 32° all day, and only rose to 32·4° at Turin. In almost all parts of these Islands the maximum temperature was about 50°, and a similar figure was recorded in the west and south of France. In Greece, some other parts of southern Europe, and in the Mediterranean Islands the thermometer rose to a few degrees above 60°.



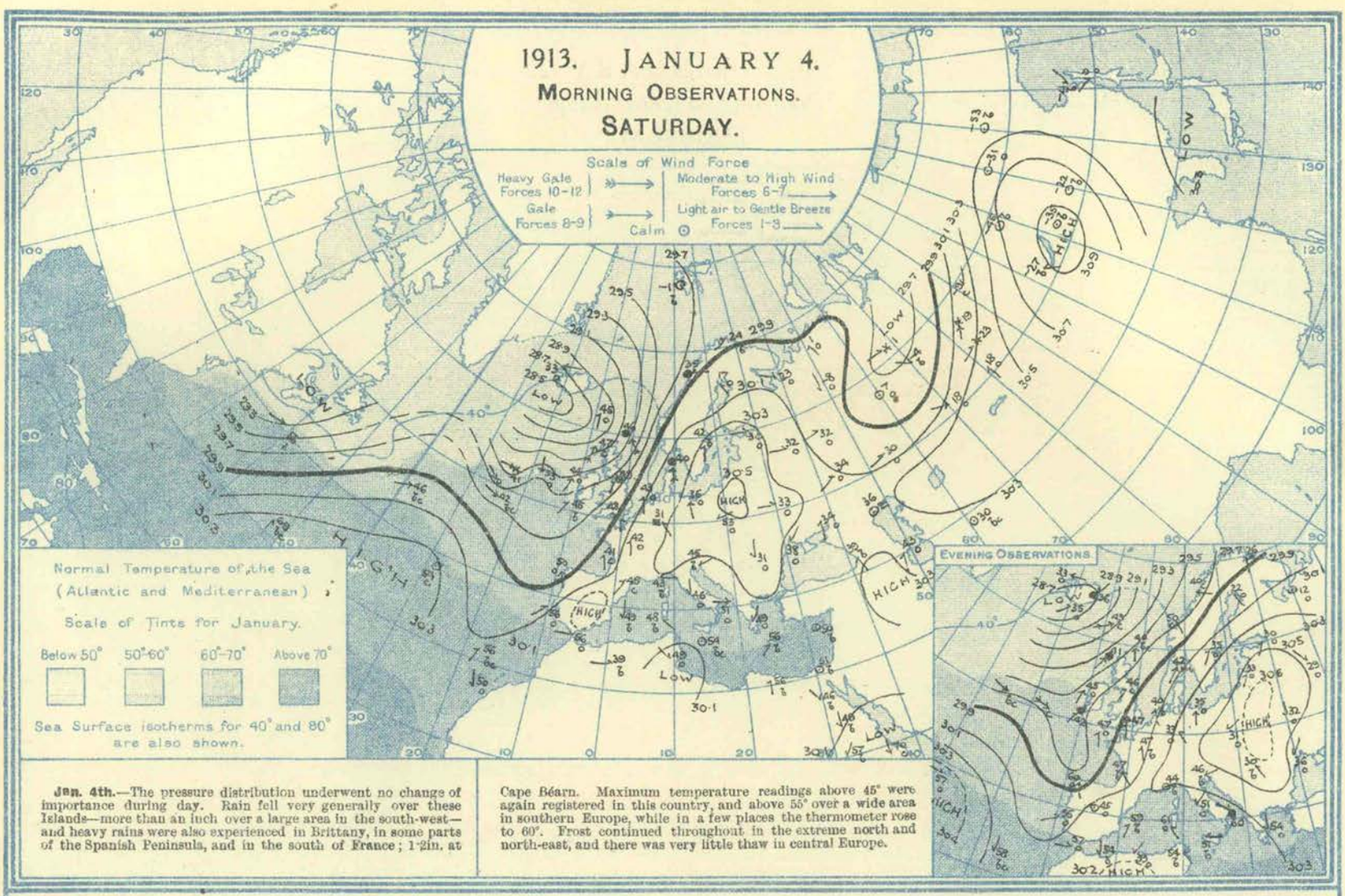
Jan. 1st.—A depression over Scandinavia moved northward during day, but little other change occurred in the pressure distribution. Rain, generally slight, occurred in most parts of these Islands, and also in various districts of northern and southern Europe and in Algeria; at Perpignan the fall was 1·7in. Frost continued all day at Turin and in the far north-east and north of the Continent, and at Vienna the highest temperature was 36°. Maxima between 45° and 50° were recorded in these Islands, and above 50° in several parts of France. In the extreme south of our area some stations reported readings of 60° and above.



Jan. 2nd.—Pressure decreased decidedly in these Islands during day, increased over Scandinavia, and the wind reached gale force on some parts of our coasts. Slight rain fell in many British localities, and heavier amounts in Ireland, the south of France and in some other parts of southern Europe; 1·1in. at Perpignan. Temperature rose to above 45° over nearly the whole of the United Kingdom, and to 50° or a little higher in the west and south of France and also in several parts of Italy, but only touched 35° at Turin, and 34° at Buda-Pesth, Prague, and Vienna. At a few stations in the extreme south of our area readings above 60° were recorded. Frost continued throughout in the far north of Europe.

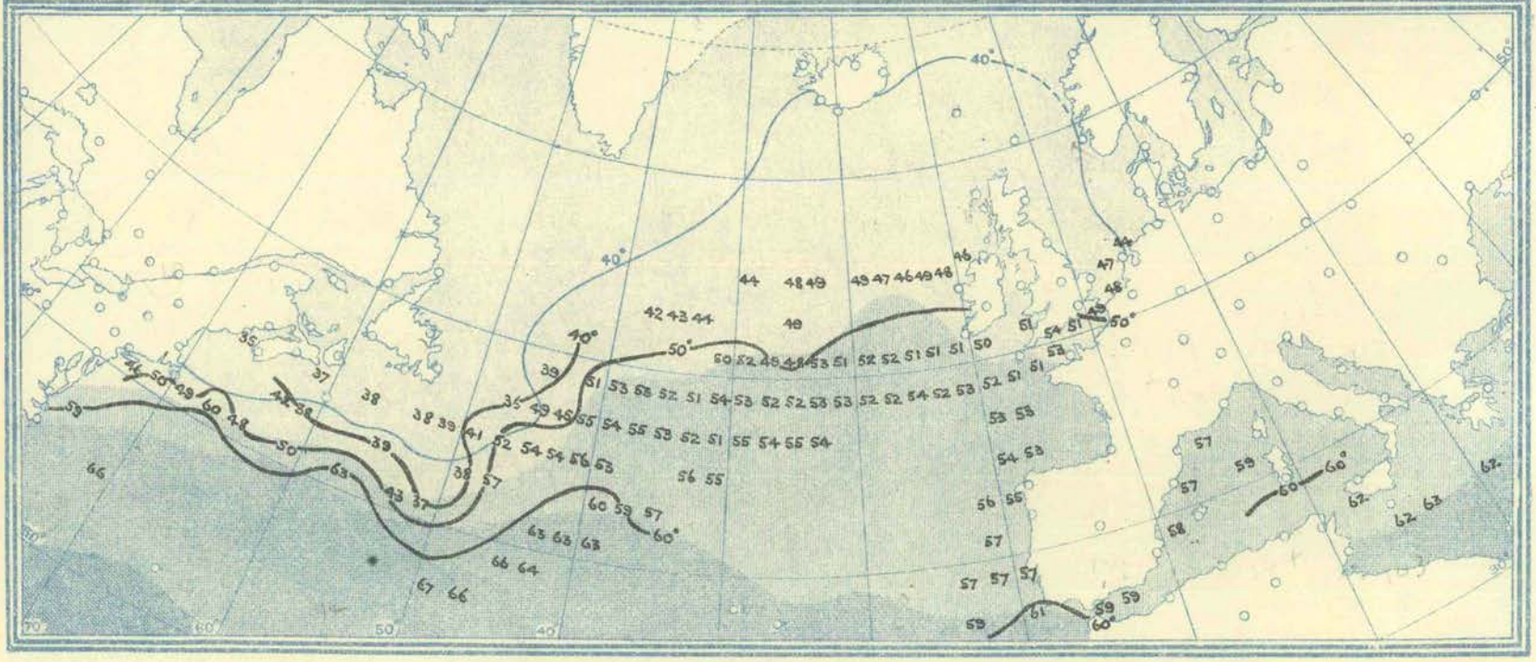


Jan. 3rd.—A depression on the Atlantic extended over Ireland during day, and gales again occurred on various parts of our western and northern coasts, and also on the coast of Norway. Moderate or slight quantities of rain fell over the greater part of this country; 0·4in. at Barcelona, and 0·6in. at Naples. The thermometer reached 50° over a large area in these Islands and France, and again recorded readings of 60° or a little higher at some places on the shores of the Mediterranean. In Austria-Hungary the maxima were not much above 32°, at Turin 36°, and in Germany little above 40°. Frost continued all day in the north of Sweden and Norway, and also in Finland and northern Russia.



Jan. 4th.—The pressure distribution underwent no change of importance during day. Rain fell very generally over these Islands—more than an inch over a large area in the south-west—and heavy rains were also experienced in Brittany, in some parts of the Spanish Peninsula, and in the south of France; 1·2in. at Cape Béarn. Maximum temperature readings above 45° were again registered in this country, and above 55° over a wide area in southern Europe, while in a few places the thermometer rose to 60°. Frost continued throughout in the extreme north and north-east, and there was very little thaw in central Europe.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 4TH JANUARY, 1913



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy, Austria and Egypt; at 5.25 a.m. in Greece; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

Observations over the Russian Empire, including Siberia, are taken at 7 a.m. local time.

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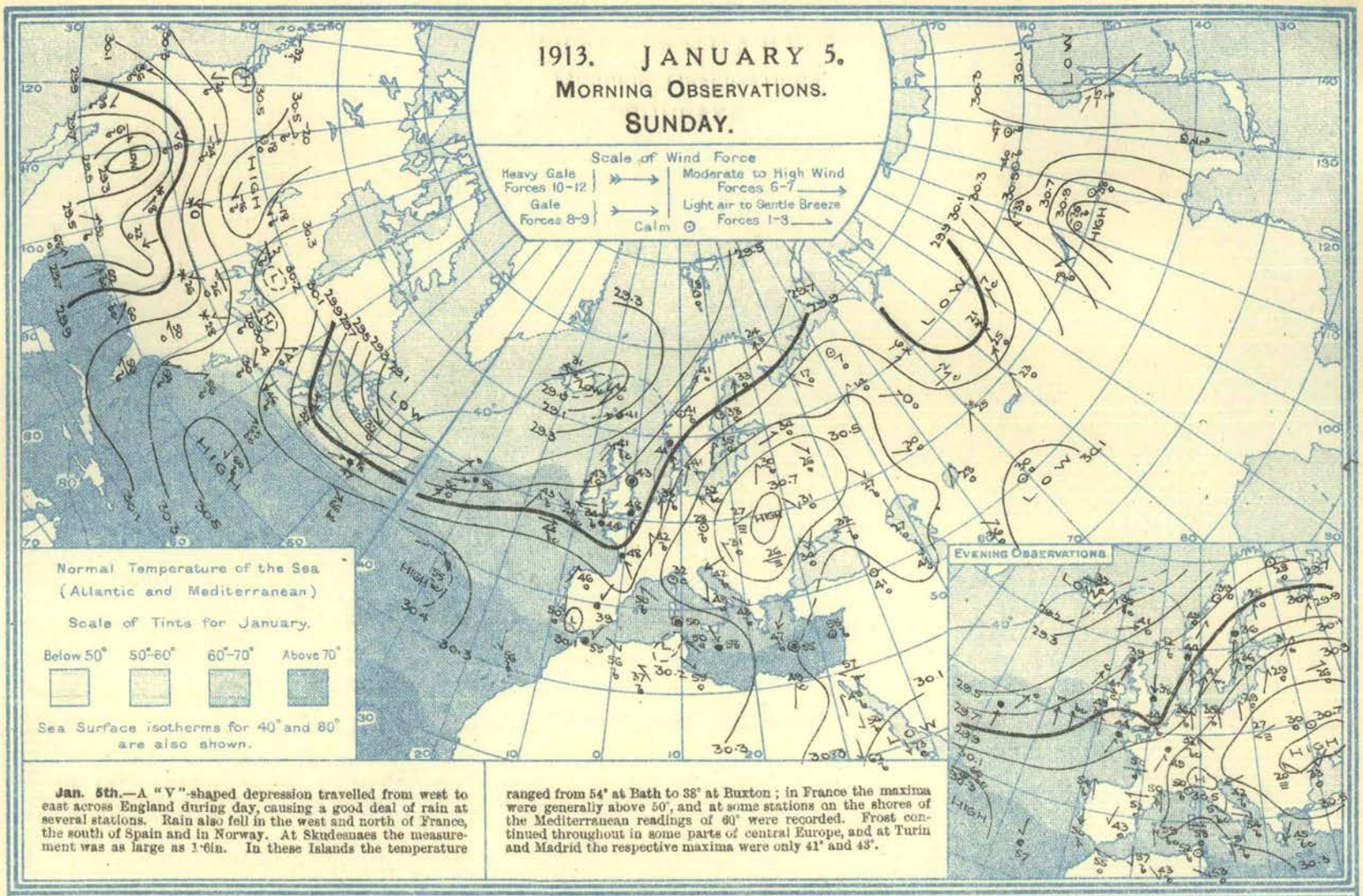
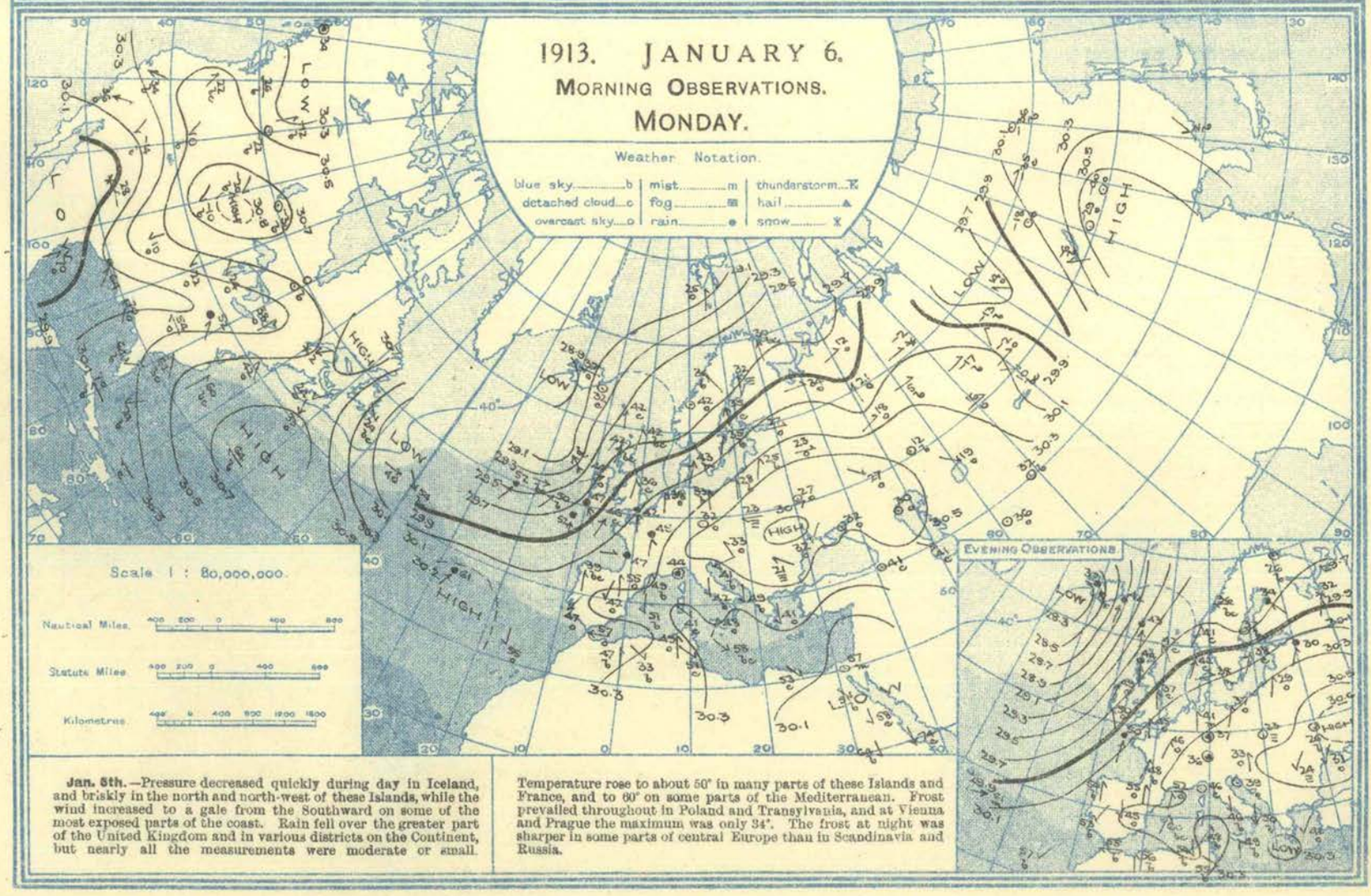
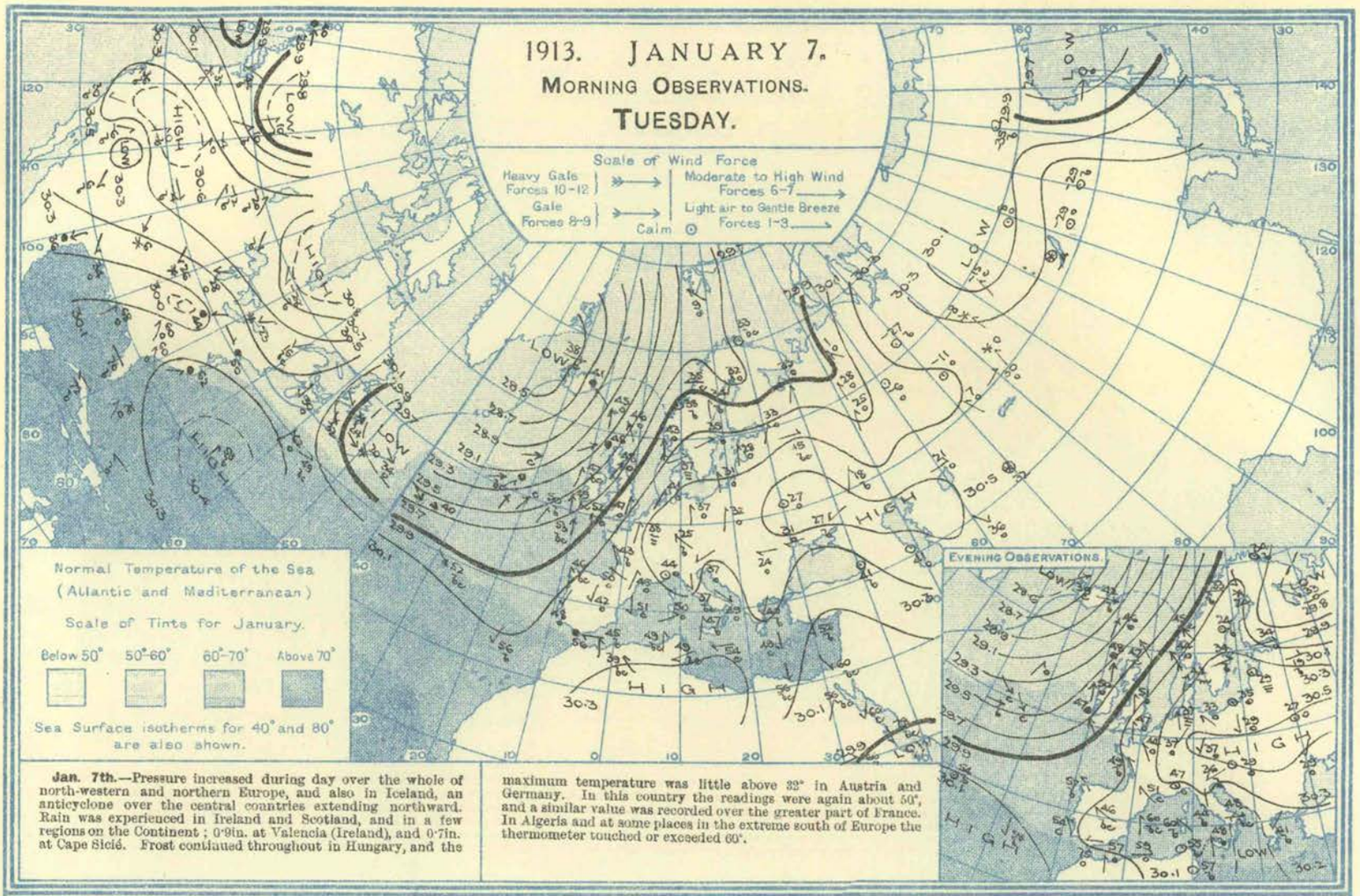
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40° and 80° are shown by 8 blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



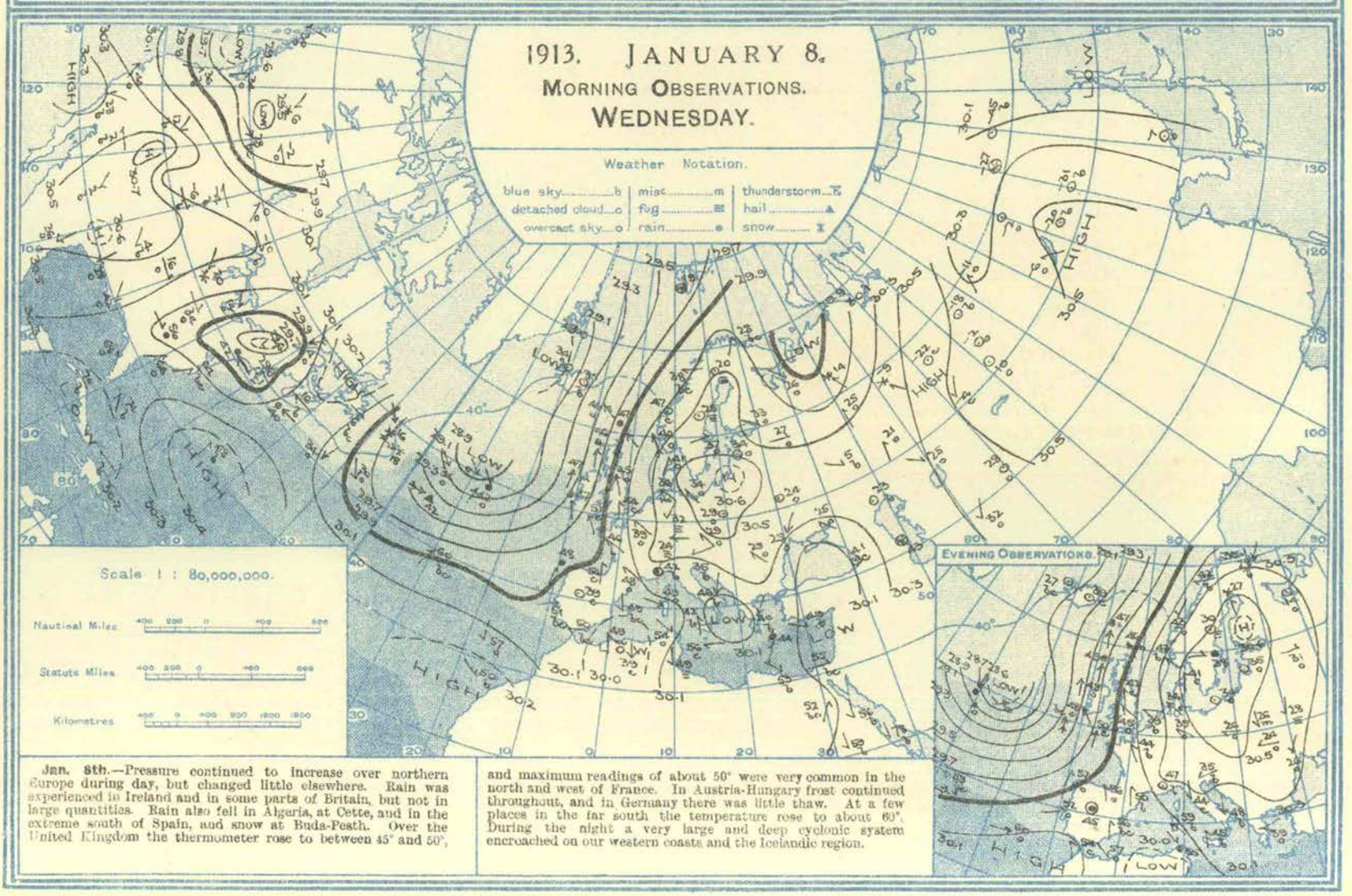
Jan. 5th.—A "V"-shaped depression travelled from west to east across England during day, causing a good deal of rain at several stations. Rain also fell in the west and north of France, the south of Spain and in Norway. At Skudesnaes the measurement was as large as 1·6in. In these Islands the temperature ranged from 54° at Bath to 38° at Ruxton; in France the maxima were generally above 50°, and at some stations on the shores of the Mediterranean readings of 60° were recorded. Frost continued throughout in some parts of central Europe, and at Turin and Madrid the respective maxima were only 41° and 43°.



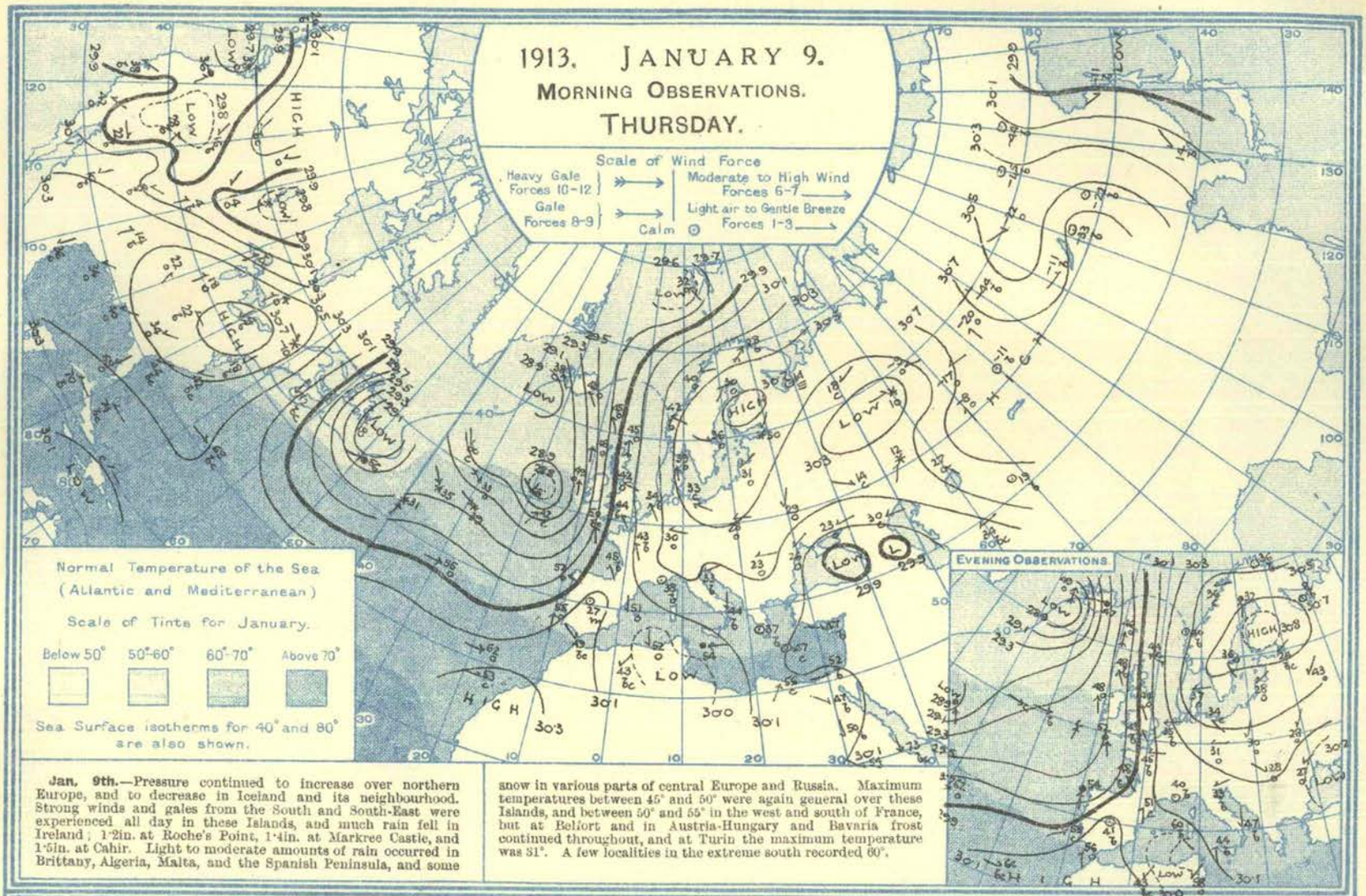
Jan. 6th.—Pressure decreased quickly during day in Iceland, and briskly in the north and north-west of these Islands, while the wind increased to a gale from the Southward on some of the most exposed parts of the coast. Rain fell over the greater part of the United Kingdom and in various districts on the Continent, but nearly all the measurements were moderate or small. Temperature rose to about 50° in many parts of these Islands and France, and to 60° on some parts of the Mediterranean. Frost prevailed throughout in Poland and Transylvania, and at Vienna and Prague the maximum was only 34°. The frost at night was sharper in some parts of central Europe than in Scandinavia and Russia.



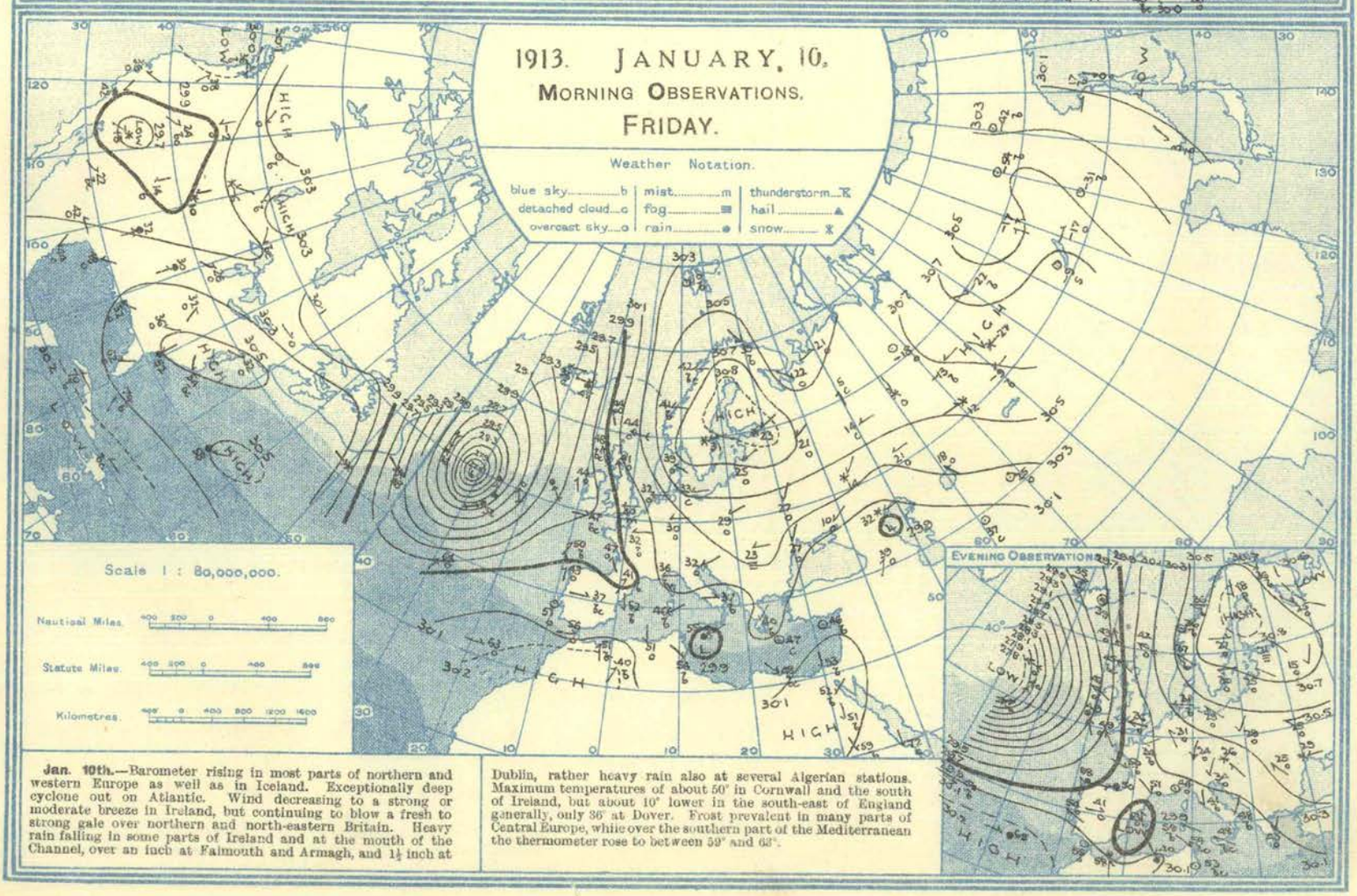
Jan. 7th.—Pressure increased during day over the whole of north-western and northern Europe, and also in Iceland, an anticyclone over the central countries extending northward. Rain was experienced in Ireland and Scotland, and in a few regions on the Continent; 0·9in. at Valencia (Ireland), and 0·7in. at Cape Sicié. Frost continued throughout in Hungary, and the maximum temperature was little above 32° in Austria and Germany. In this country the readings were again about 50°, and a similar value was recorded over the greater part of France. In Algeria and at some places in the extreme south of Europe the thermometer touched or exceeded 60°.



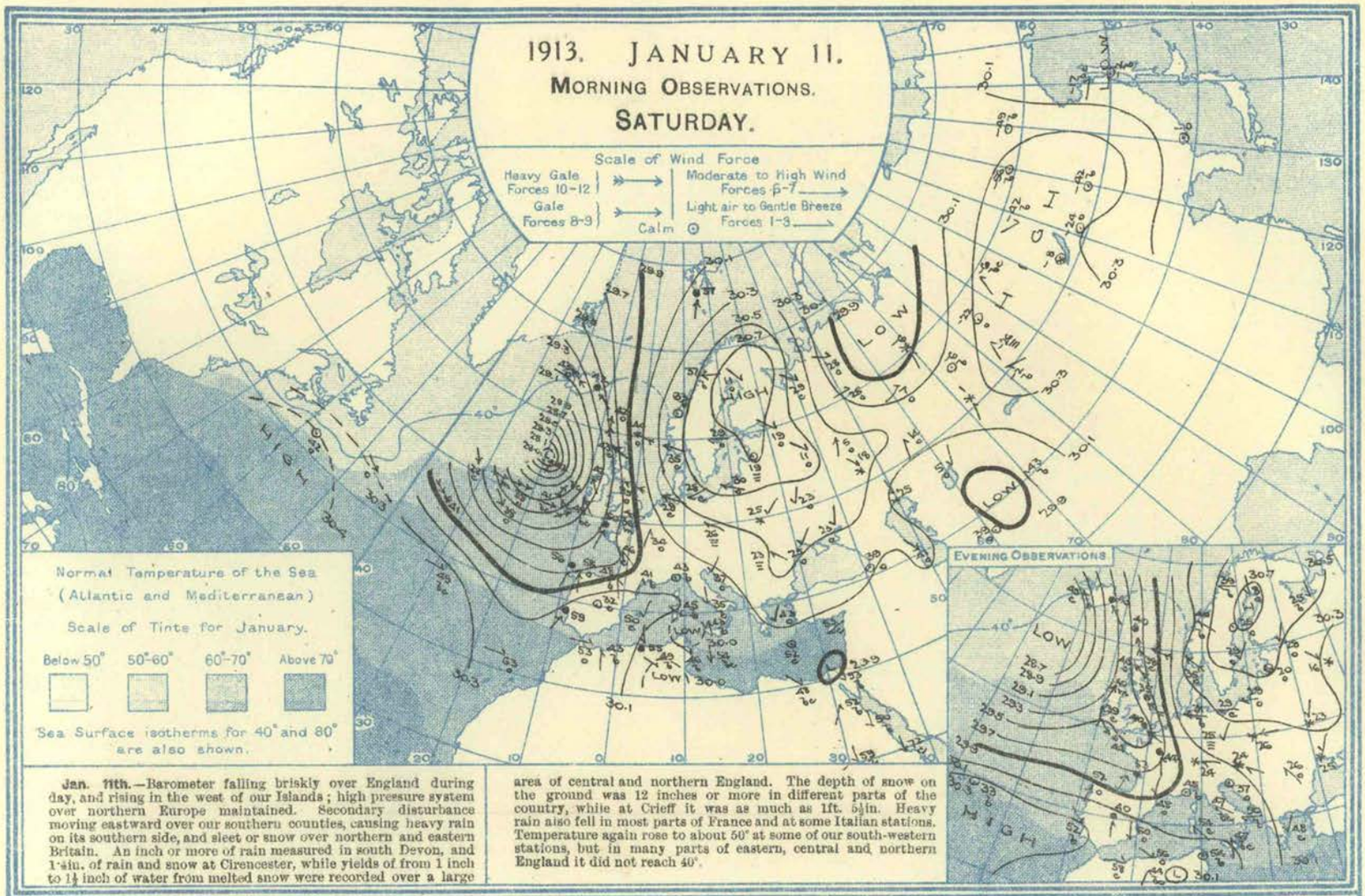
Jan. 8th.—Pressure continued to increase over northern Europe during day, but changed little elsewhere. Rain was experienced in Ireland and in some parts of Britain, but not in large quantities. Rain also fell in Algeria, at Cette, and in the extreme south of Spain, and snow at Buda-Pesth. Over the United Kingdom the thermometer rose to between 45° and 50°, and maximum readings of about 50° were very common in the north and west of France. In Austria-Hungary frost continued throughout, and in Germany there was little thaw. At a few places in the far south the temperature rose to about 60°. During the night a very large and deep cyclonic system encroached on our western coasts and the Icelandic region.



Jan. 9th.—Pressure continued to increase over northern Europe, and to decrease in Iceland and its neighbourhood. Strong winds and gales from the South and South-East were experienced all day in these Islands, and much rain fell in Ireland; 1·2in. at Roche's Point, 1·4in. at Markree Castle, and 1·5in. at Cahir. Light to moderate amounts of rain occurred in Brittany, Algeria, Malta, and the Spanish Peninsula, and some snow in various parts of central Europe and Russia. Maximum temperatures between 45° and 50° were again general over these Islands, and between 50° and 55° in the west and south of France, but at Belfort and in Austria-Hungary and Bavaria frost continued throughout, and at Turin the maximum temperature was 31°. A few localities in the extreme south recorded 60°.

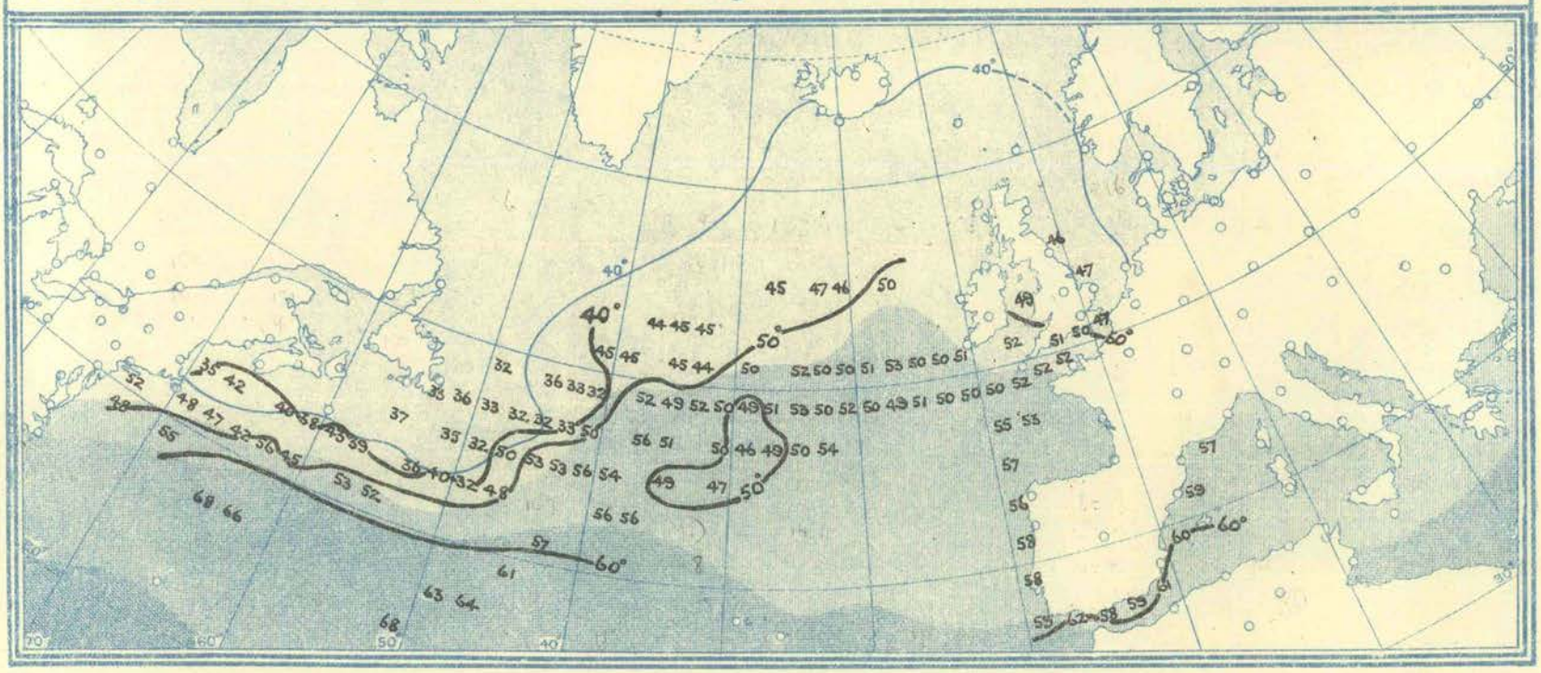


Jan. 10th.—Barometer rising in most parts of northern and western Europe as well as in Iceland. Exceptionally deep cyclone out on Atlantic. Wind decreasing to a strong or moderate breeze in Ireland, but continuing to blow a fresh to strong gale over northern and north-eastern Britain. Heavy rain falling in some parts of Ireland and at the mouth of the Channel, over an inch at Falmouth and Armagh, and 1½ inch at Dublin, rather heavy rain also at several Algerian stations. Maximum temperatures of about 50° in Cornwall and the south of Ireland, but about 10° lower in the south-east of England generally, only 36° at Dover. Frost prevalent in many parts of Central Europe, while over the southern part of the Mediterranean the thermometer rose to between 59° and 63°.



Jan. 11th.—Barometer falling briskly over England during day, and rising in the west of our Islands; high pressure system over northern Europe maintained. Secondary disturbance moving eastward over our southern counties, causing heavy rain on its southern side, and sleet or snow over northern and eastern Britain. An inch or more of rain measured in south Devon, and 1·4in. of rain and snow at Cirencester, while yields of from 1 inch to 1¼ inch of water from melted snow were recorded over a large area of central and northern England. The depth of snow on the ground was 12 inches or more in different parts of the country, while at Crieff it was as much as 1ft. 5½in. Heavy rain also fell in most parts of France and at some Italian stations. Temperature again rose to about 50° at some of our south-western stations, but in many parts of eastern, central and northern England it did not reach 40°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 11TH. JANUARY, 1913.



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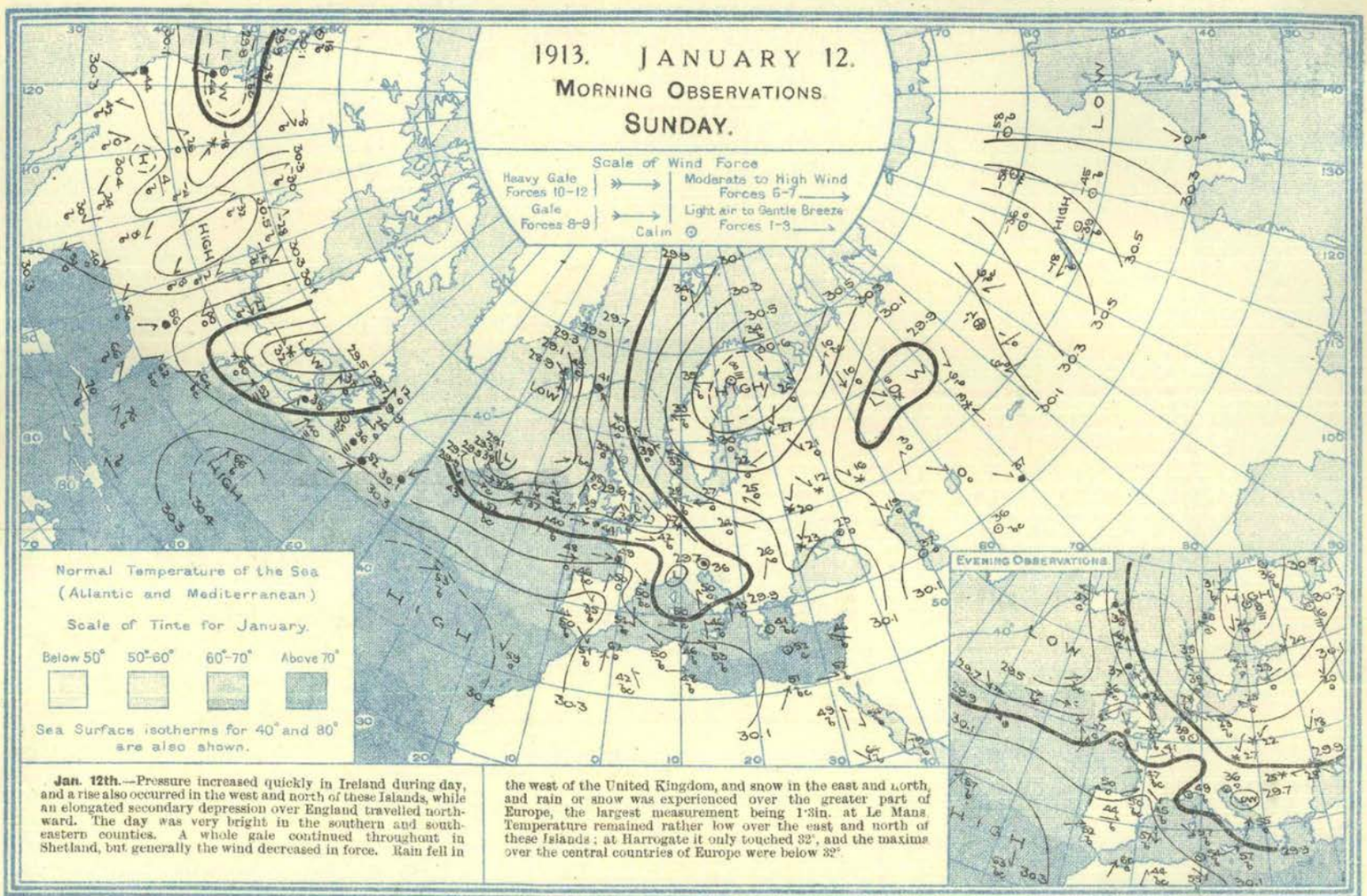
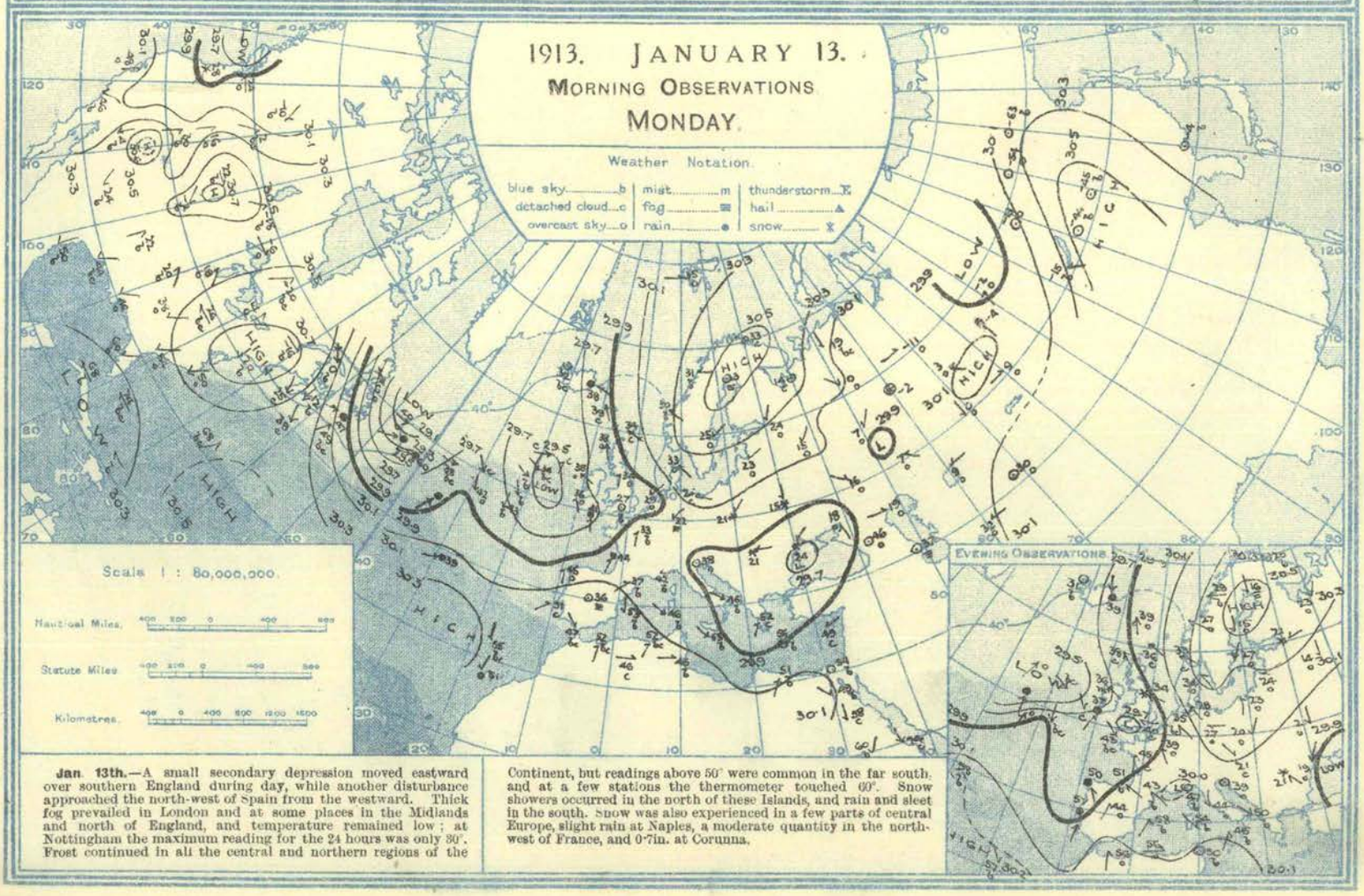
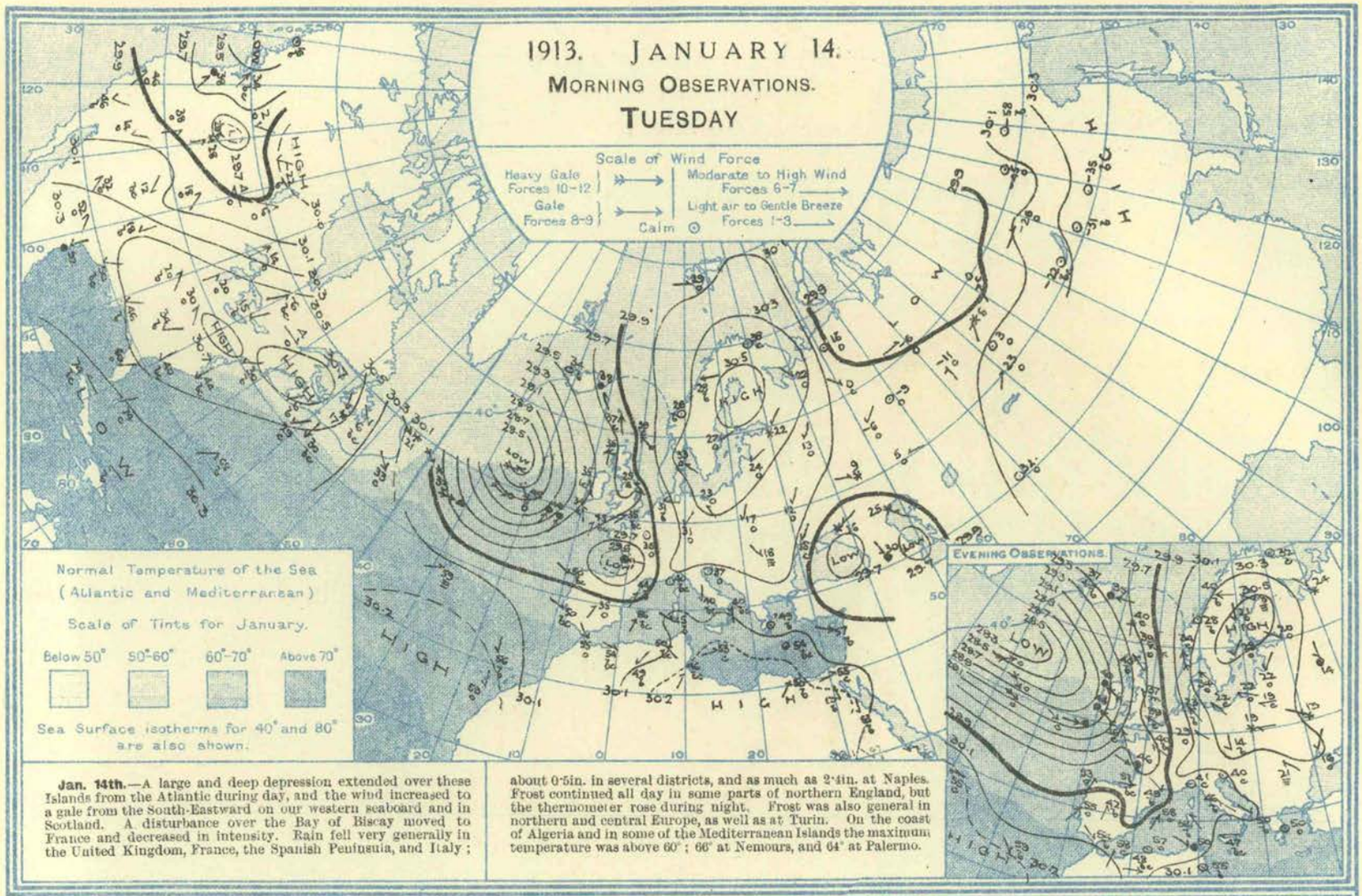


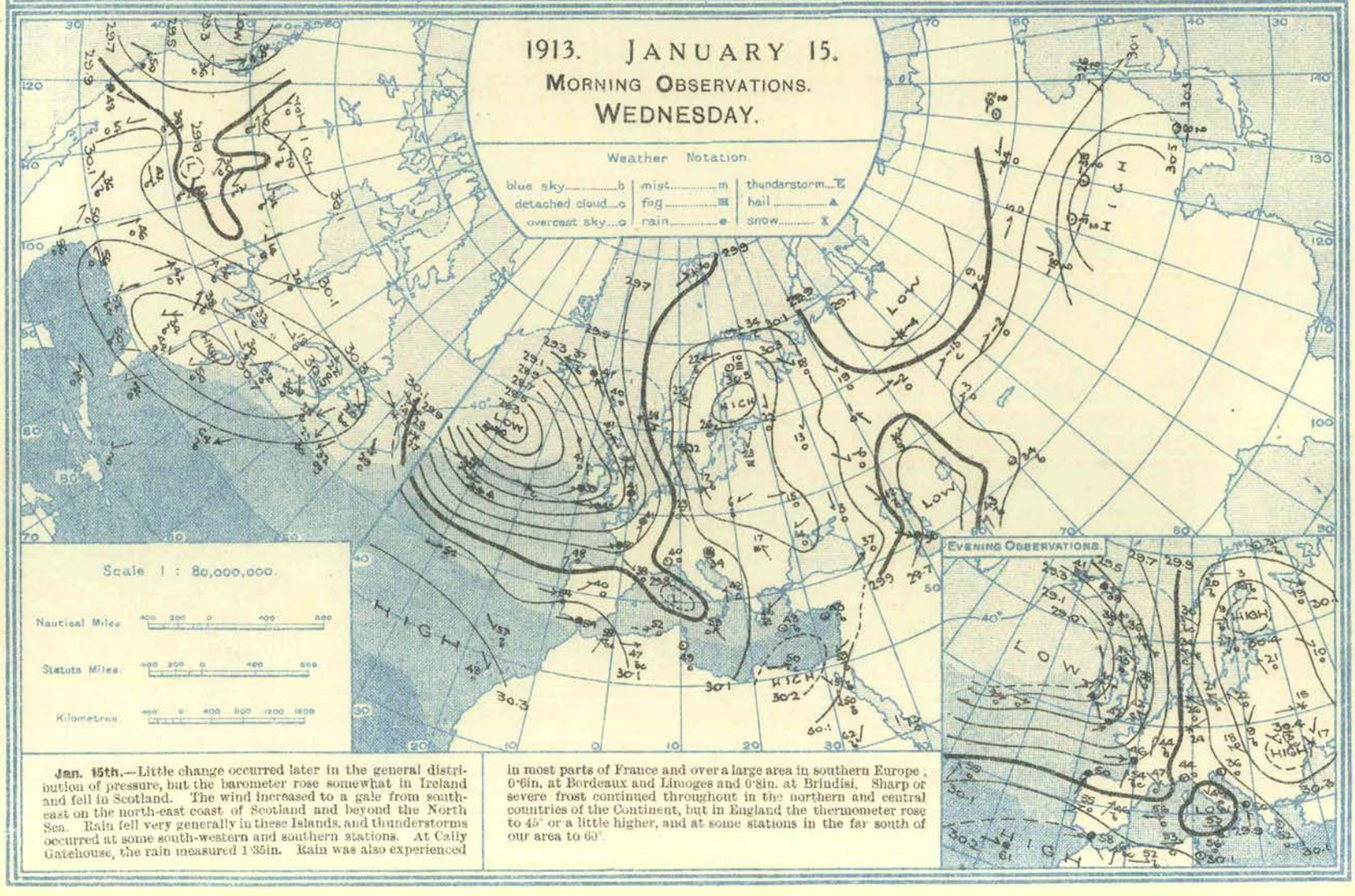
Jan. 12th.—Pressure increased quickly in Ireland during day, and a rise also occurred in the west and north of these Islands, while an elongated secondary depression over England travelled northward. The day was very bright in the southern and south-eastern counties. A whole gale continued throughout in Shetland, but generally the wind decreased in force. Rain fell in the west of the United Kingdom, and snow in the east and north, and rain or snow was experienced over the greater part of Europe, the largest measurement being 1·3in. at Le Mans. Temperature remained rather low over the east and north of these Islands; at Harrogate it only touched 32°, and the maxima over the central countries of Europe were below 32°



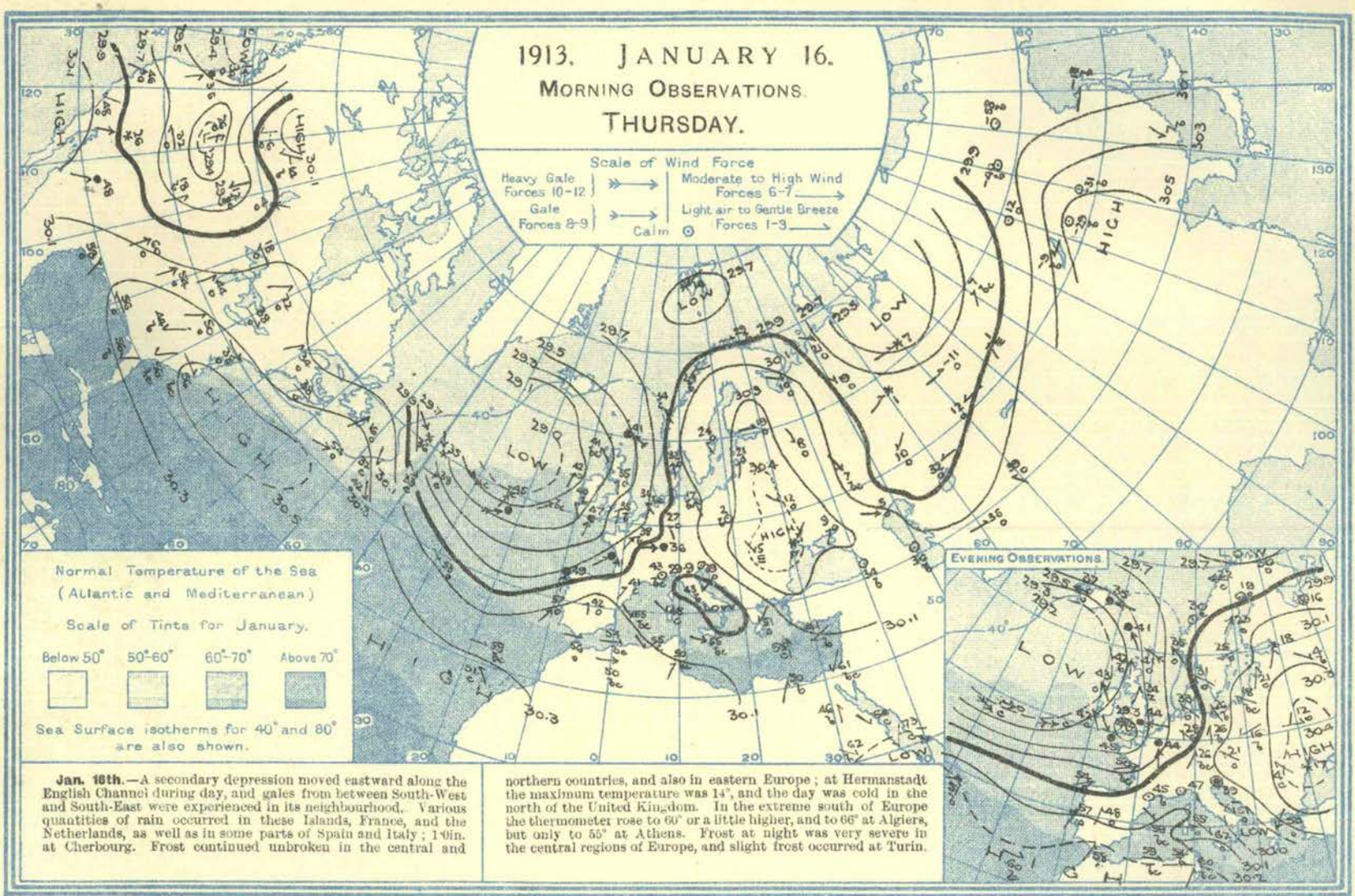
Jan. 13th.—A small secondary depression moved eastward over southern England during day, while another disturbance approached the north-west of Spain from the westward. Thick fog prevailed in London and at some places in the Midlands and north of England, and temperature remained low; at Nottingham the maximum reading for the 24 hours was only 30°. Frost continued in all the central and northern regions of the Continent, but readings above 50° were common in the far south, and at a few stations the thermometer touched 60°. Snow showers occurred in the north of these Islands, and rain and sleet in the south. Snow was also experienced in a few parts of central Europe, slight rain at Naples, a moderate quantity in the north-west of France, and 0·7in. at Corunna.



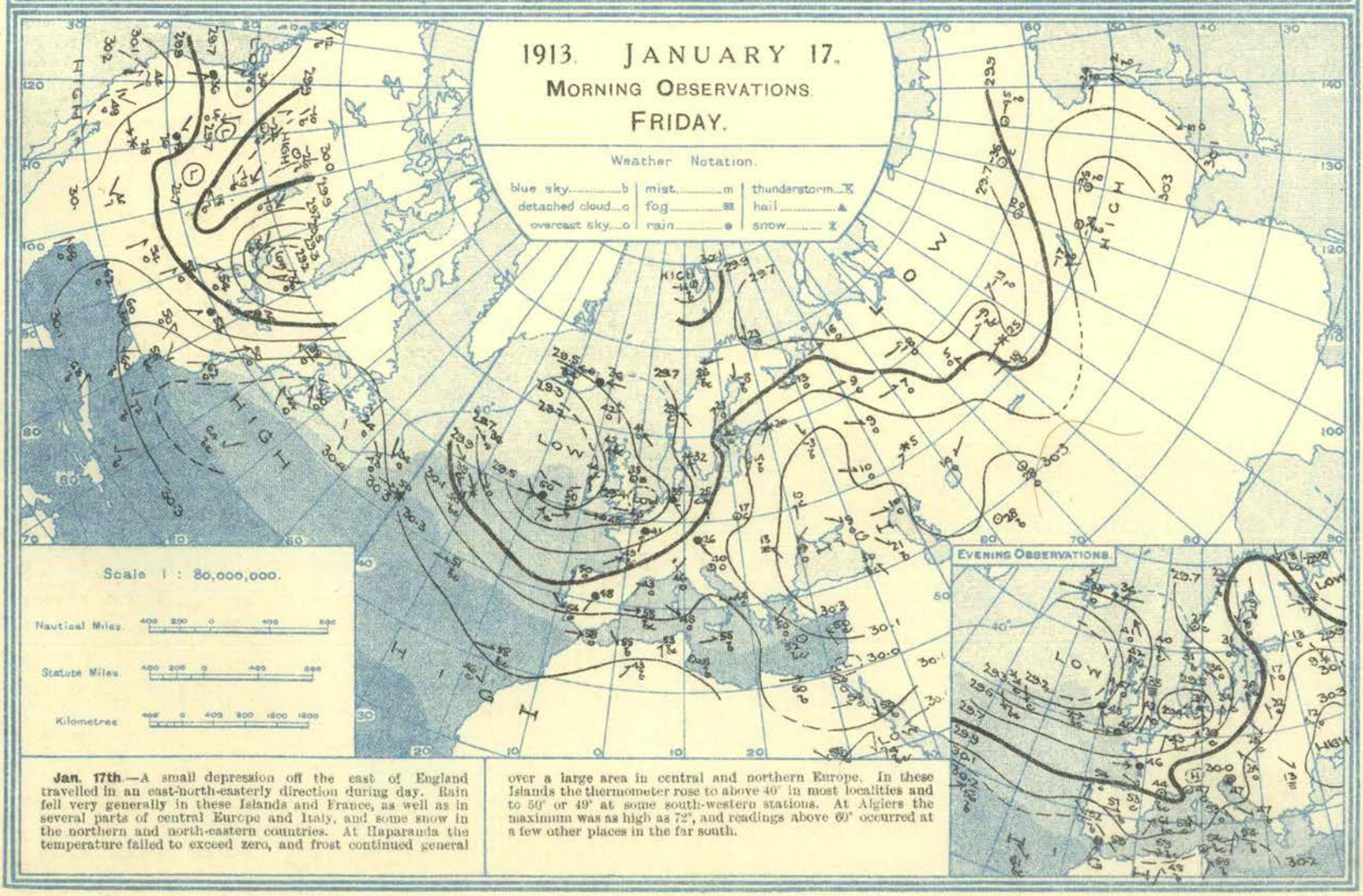
Jan. 14th.—A large and deep depression extended over these Islands from the Atlantic during day, and the wind increased to a gale from the South-Eastward on our western seaboard and in Scotland. A disturbance over the Bay of Biscay moved to France and decreased in intensity. Rain fell very generally in the United Kingdom, France, the Spanish Peninsula, and Italy; about 0·5in. in several districts, and as much as 2·4in. at Naples. Frost continued all day in some parts of northern England, but the thermometer rose during night. Frost was also general in northern and central Europe, as well as at Turin. On the coast of Algeria and in some of the Mediterranean Islands the maximum temperature was above 60°; 66° at Nemours, and 64° at Palermo.



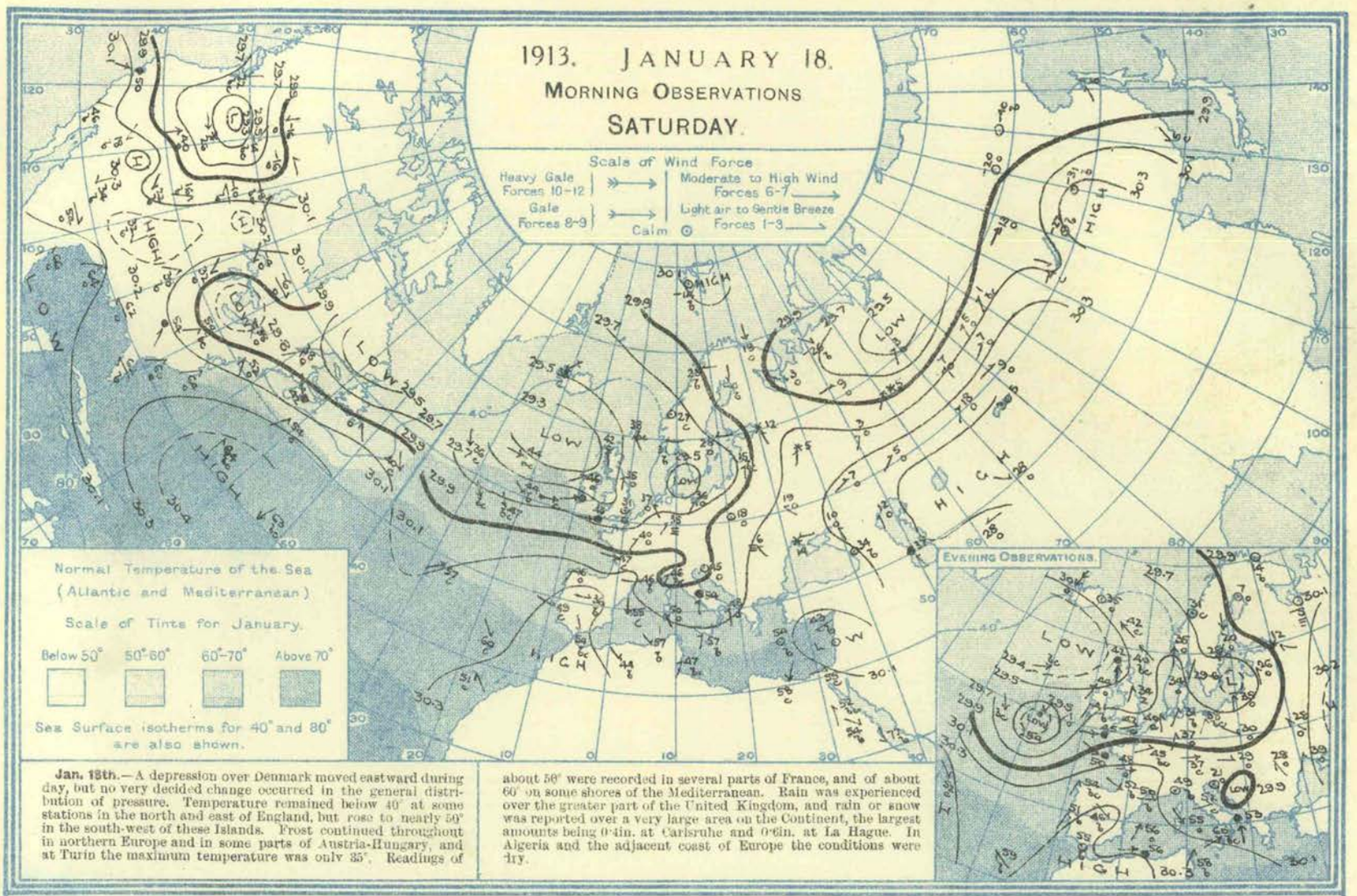
Jan. 15th.—Little change occurred later in the general distribution of pressure, but the barometer rose somewhat in Ireland and fell in Scotland. The wind increased to a gale from south-east on the north-east coast of Scotland and beyond the North Sea. Rain fell very generally in these Islands, and thunderstorms occurred at some south-western and southern stations. At Cally Gatehouse, the rain measured 1·35in. Rain was also experienced in most parts of France and over a large area in southern Europe, 0·6in. at Bordeaux and Limoges and 0·8in. at Brindisi. Sharp or severe frost continued throughout in the northern and central countries of the Continent, but in England the thermometer rose to 45° or a little higher, and at some stations in the far south of our area to 65°.



Jan. 16th.—A secondary depression moved eastward along the English Channel during day, and gales from between South-West and South-East were experienced in its neighbourhood. Various quantities of rain occurred in these Islands, France, and the Netherlands, as well as in some parts of Spain and Italy; 1·0in. at Cherbourg. Frost continued unbroken in the central and northern countries, and also in eastern Europe; at Hermanstadt the maximum temperature was 14°, and the day was cold in the north of the United Kingdom. In the extreme south of Europe the thermometer rose to 60° or a little higher, and to 66° at Algiers, but only to 55° at Athens. Frost at night was very severe in the central regions of Europe, and slight frost occurred at Turin.

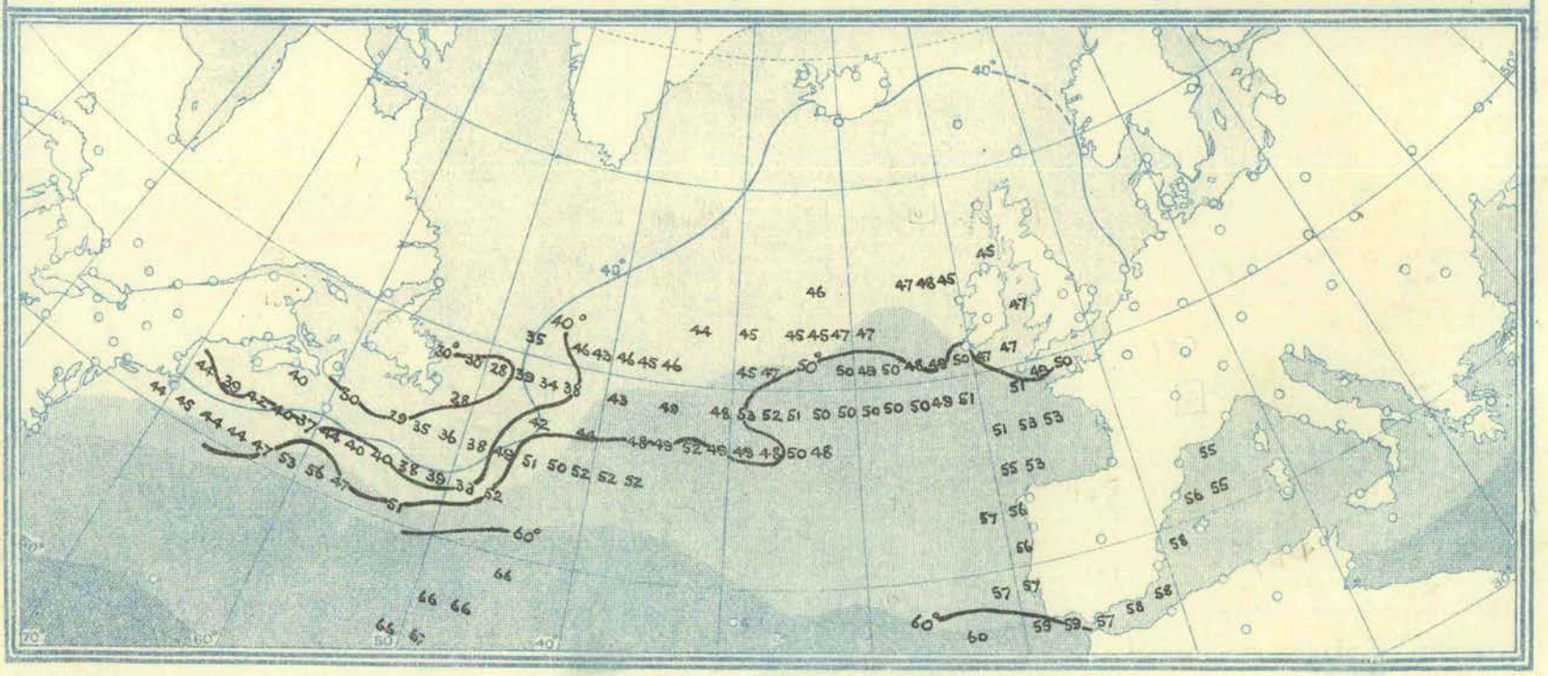


Jan. 17th.—A small depression off the east of England travelled in an east-north-easterly direction during day. Rain fell very generally in these Islands and France, as well as in several parts of central Europe and Italy, and some snow in the northern and north-eastern countries. At Haparanda the temperature failed to exceed zero, and frost continued general over a large area in central and northern Europe. In these Islands the thermometer rose to above 40° in most localities and to 50° or 49° at some south-western stations. At Algiers the maximum was as high as 72°, and readings above 60° occurred at a few other places in the far south.



Jan. 18th.—A depression over Denmark moved eastward during day, but no very decided change occurred in the general distribution of pressure. Temperature remained below 40° at some stations in the north and east of England, but rose to nearly 50° in the south-west of these Islands. Frost continued throughout in northern Europe and in some parts of Austria-Hungary, and at Turin the maximum temperature was only 35°. Readings of about 56° were recorded in several parts of France, and of about 60° on some shores of the Mediterranean. Rain was experienced over the greater part of the United Kingdom, and rain or snow was reported over a very large area on the Continent, the largest amounts being 0·4in. at Carlsruhe and 0·6in. at La Hague. In Algeria and the adjacent coast of Europe the conditions were dry.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 18TH. JANUARY, 1913.



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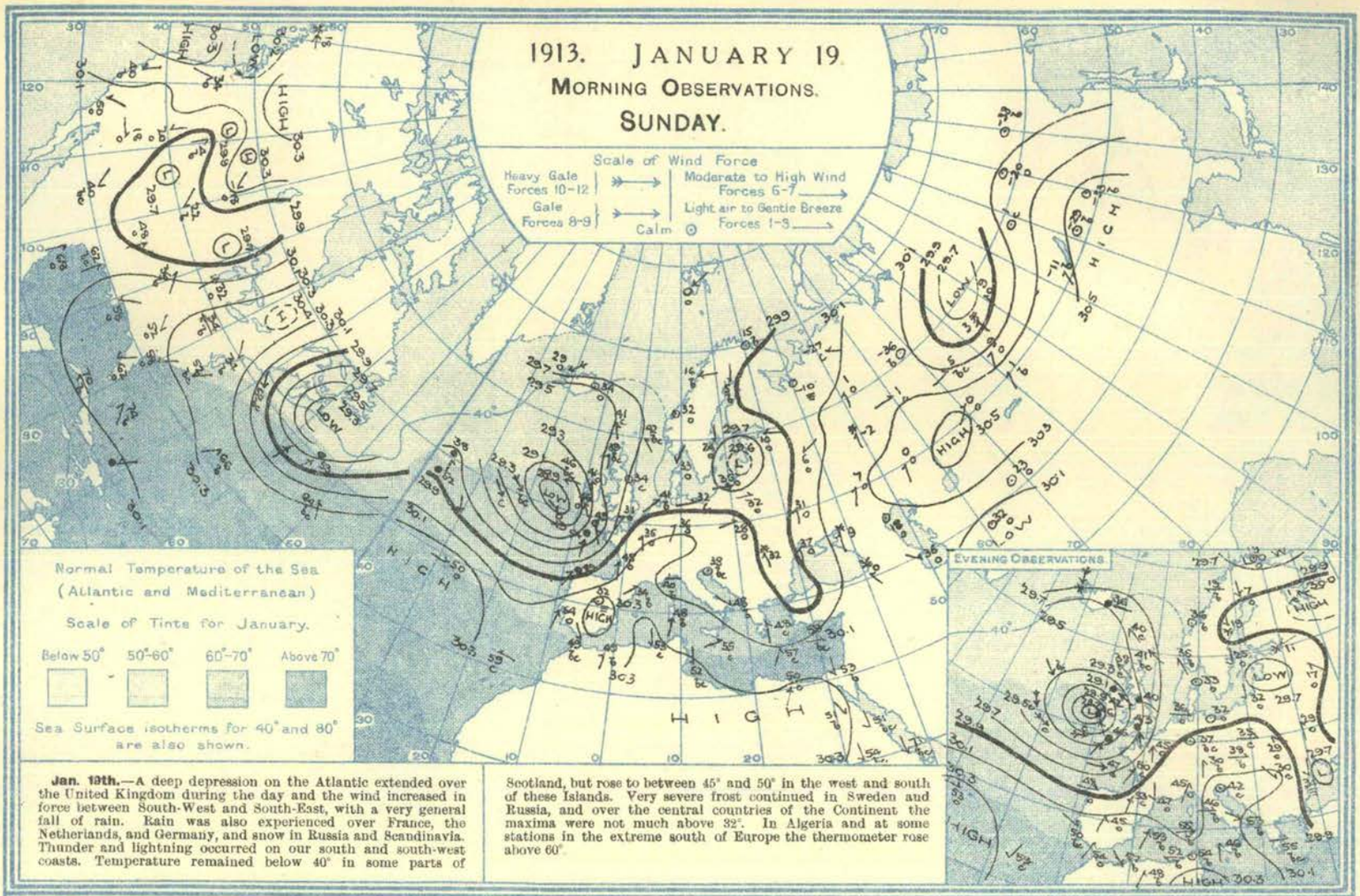
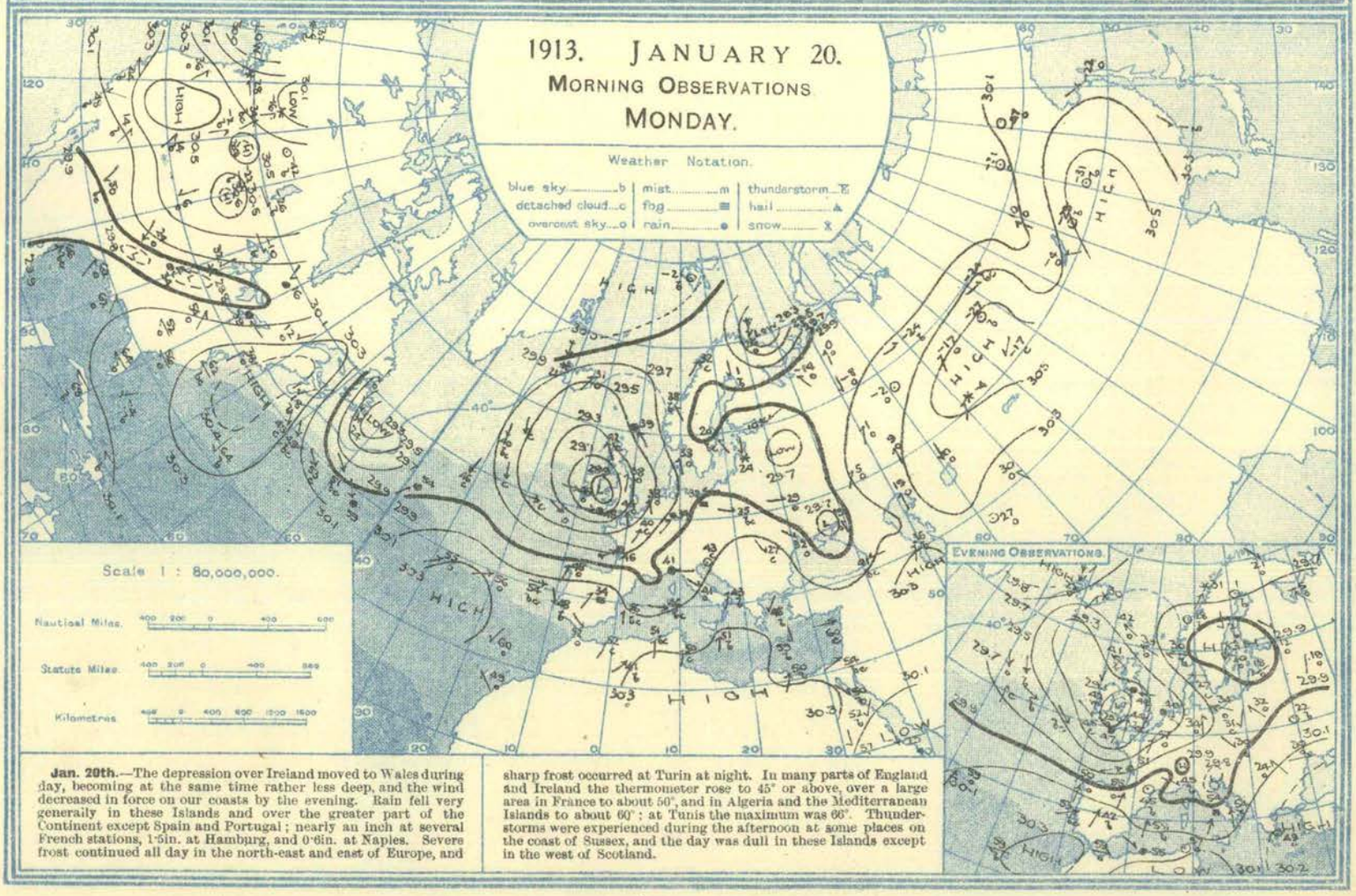
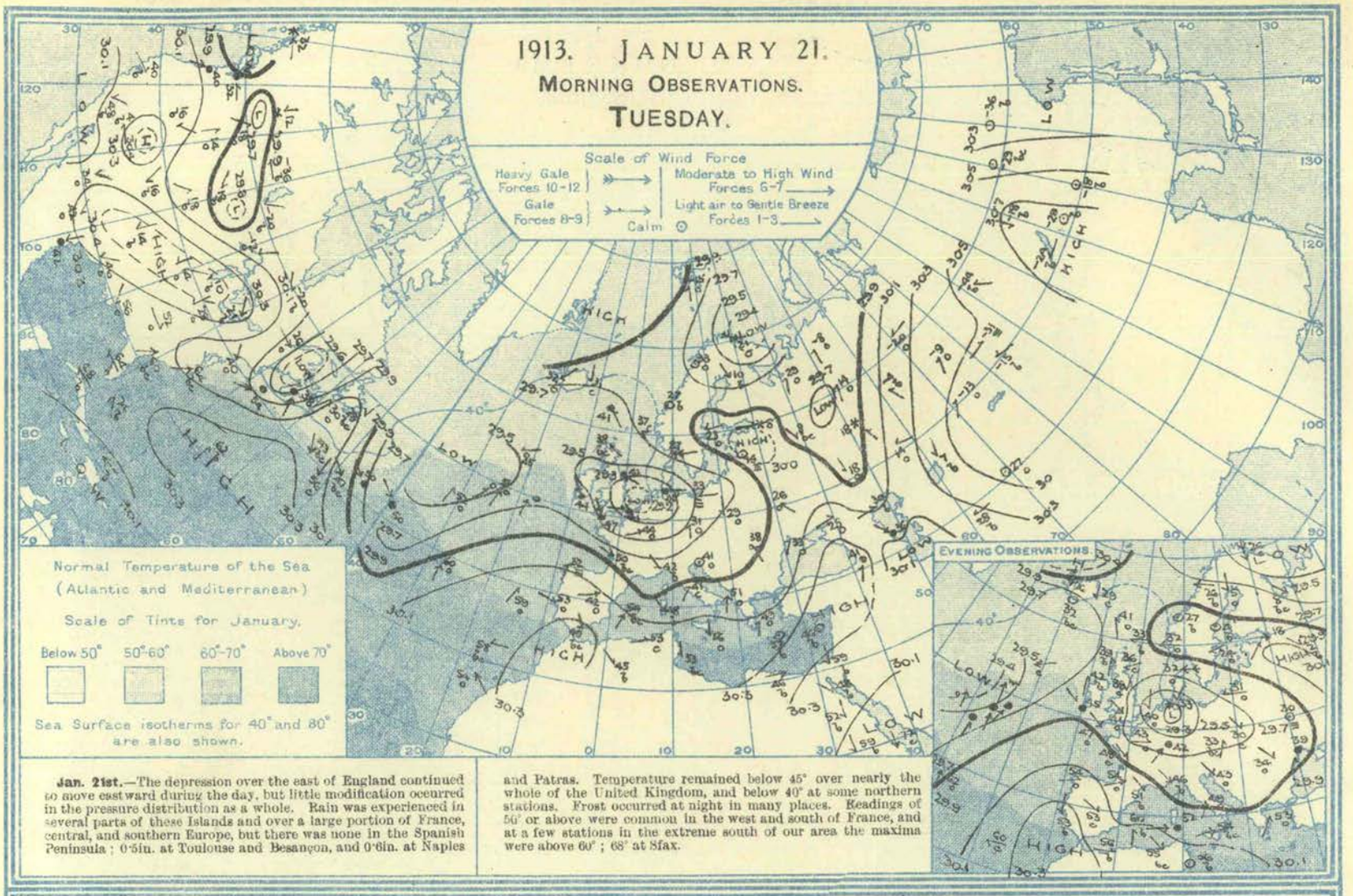


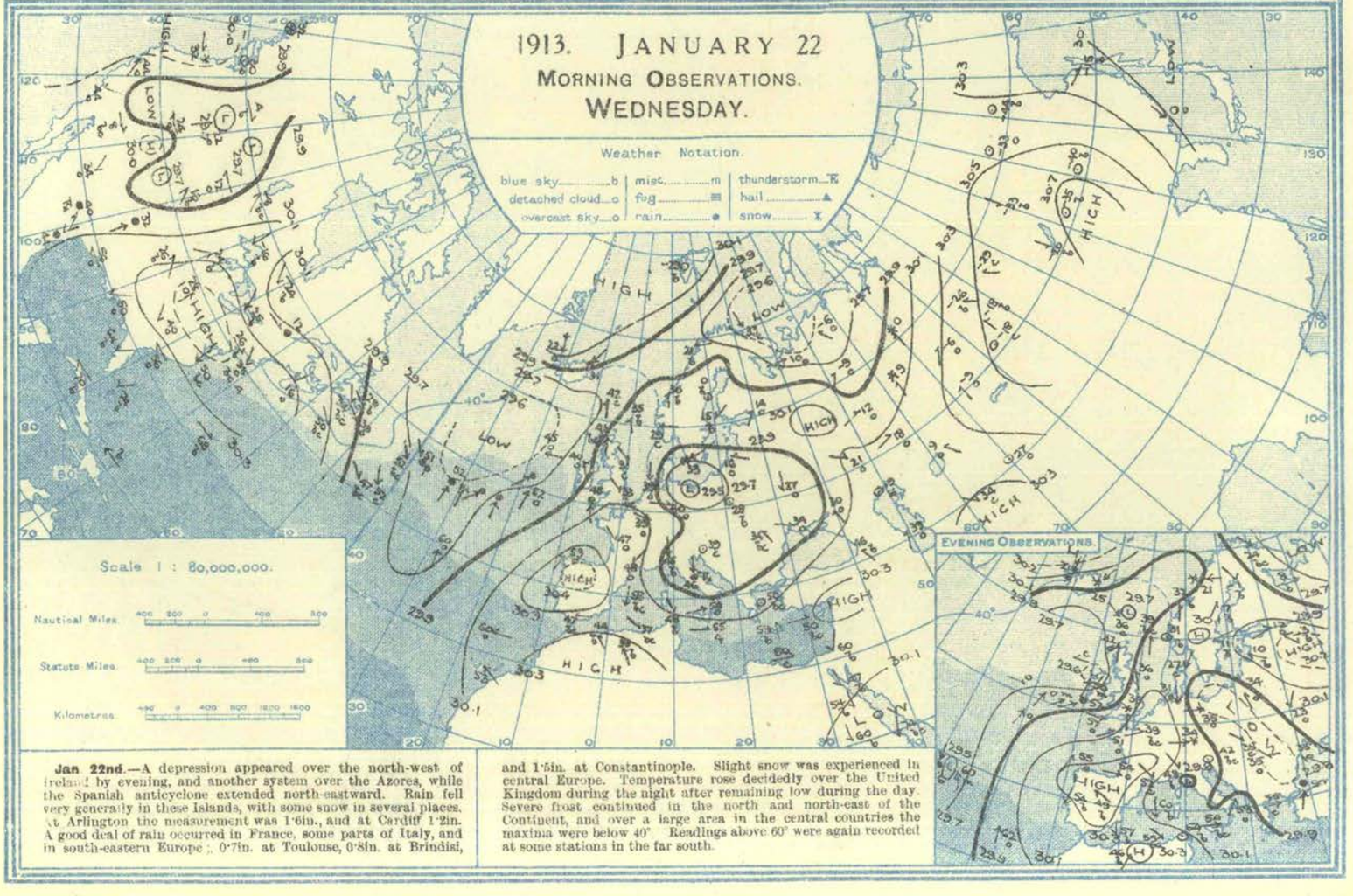
Jan. 19th.—A deep depression on the Atlantic extended over the United Kingdom during the day and the wind increased in force between South-West and South-East, with a very general fall of rain. Rain was also experienced over France, the Netherlands, and Germany, and snow in Russia and Scandinavia. Thunder and lightning occurred on our south and south-west coasts. Temperature remained below 40° in some parts of Scotland, but rose to between 45° and 50° in the west and south of these Islands. Very severe frost continued in Sweden and Russia, and over the central countries of the Continent the maxima were not much above 32°. In Algeria and at some stations in the extreme south of Europe the thermometer rose above 60°.



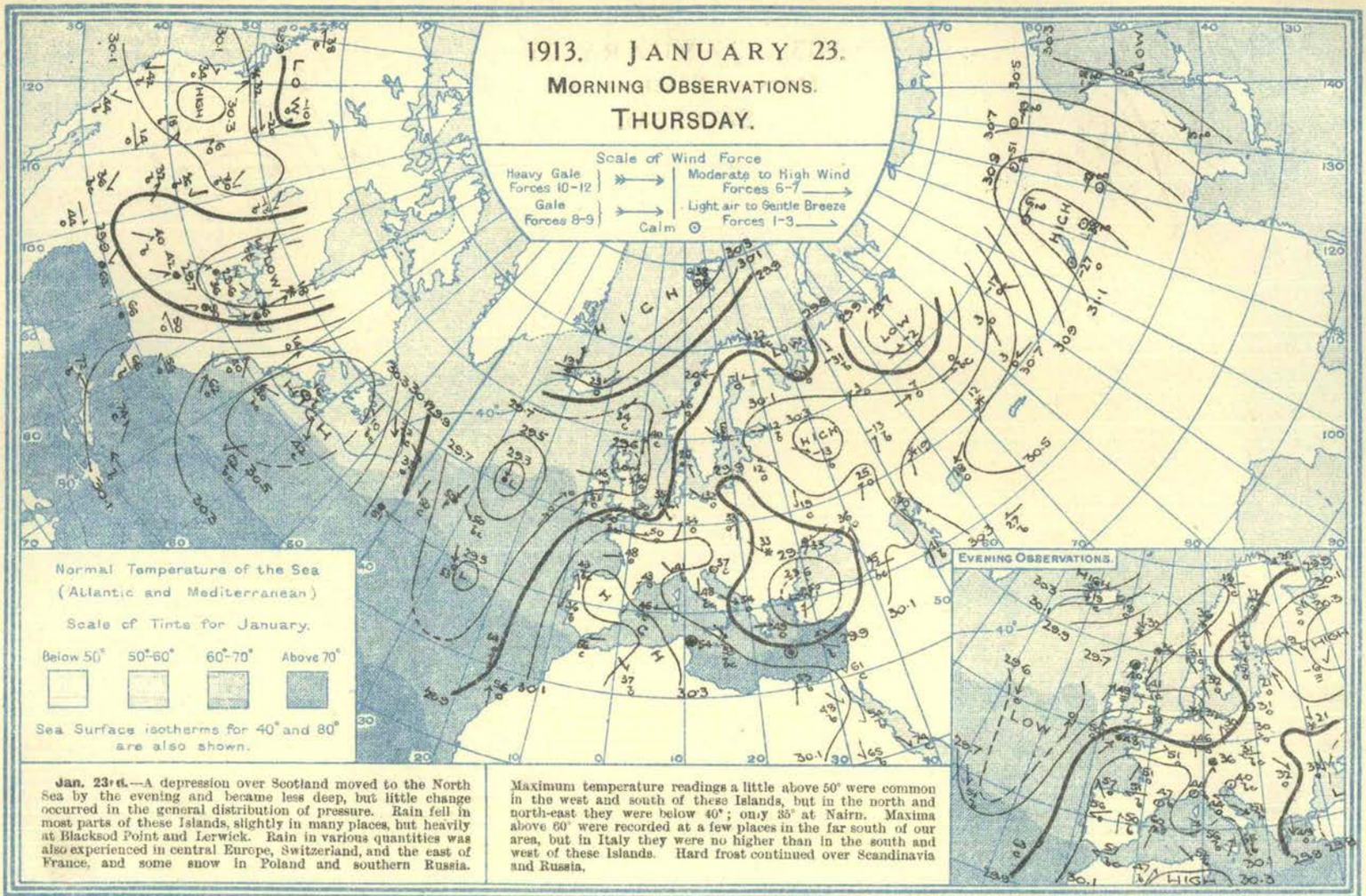
Jan. 20th.—The depression over Ireland moved to Wales during day, becoming at the same time rather less deep, and the wind decreased in force on our coasts by the evening. Rain fell very generally in these Islands and over the greater part of the Continent except Spain and Portugal; nearly an inch at several French stations, 1·5in. at Hamburg, and 0·6in. at Naples. Severe frost continued all day in the north-east and east of Europe, and sharp frost occurred at Turin at night. In many parts of England and Ireland the thermometer rose to 45° or above, over a large area in France to about 50°, and in Algeria and the Mediterranean Islands to about 60°; at Tunis the maximum was 66°. Thunderstorms were experienced during the afternoon at some places on the coast of Sussex, and the day was dull in these Islands except in the west of Scotland.



Jan. 21st.—The depression over the east of England continued to move eastward during the day, but little modification occurred in the pressure distribution as a whole. Rain was experienced in several parts of these Islands and over a large portion of France, central, and southern Europe, but there was none in the Spanish Peninsula; 0·5in. at Toulouse and Besançon, and 0·6in. at Naples and Patras. Temperature remained below 45° over nearly the whole of the United Kingdom, and below 40° at some northern stations. Frost occurred at night in many places. Readings of 50° or above were common in the west and south of France, and at a few stations in the extreme south of our area the maxima were above 60°; 68° at Sfax.

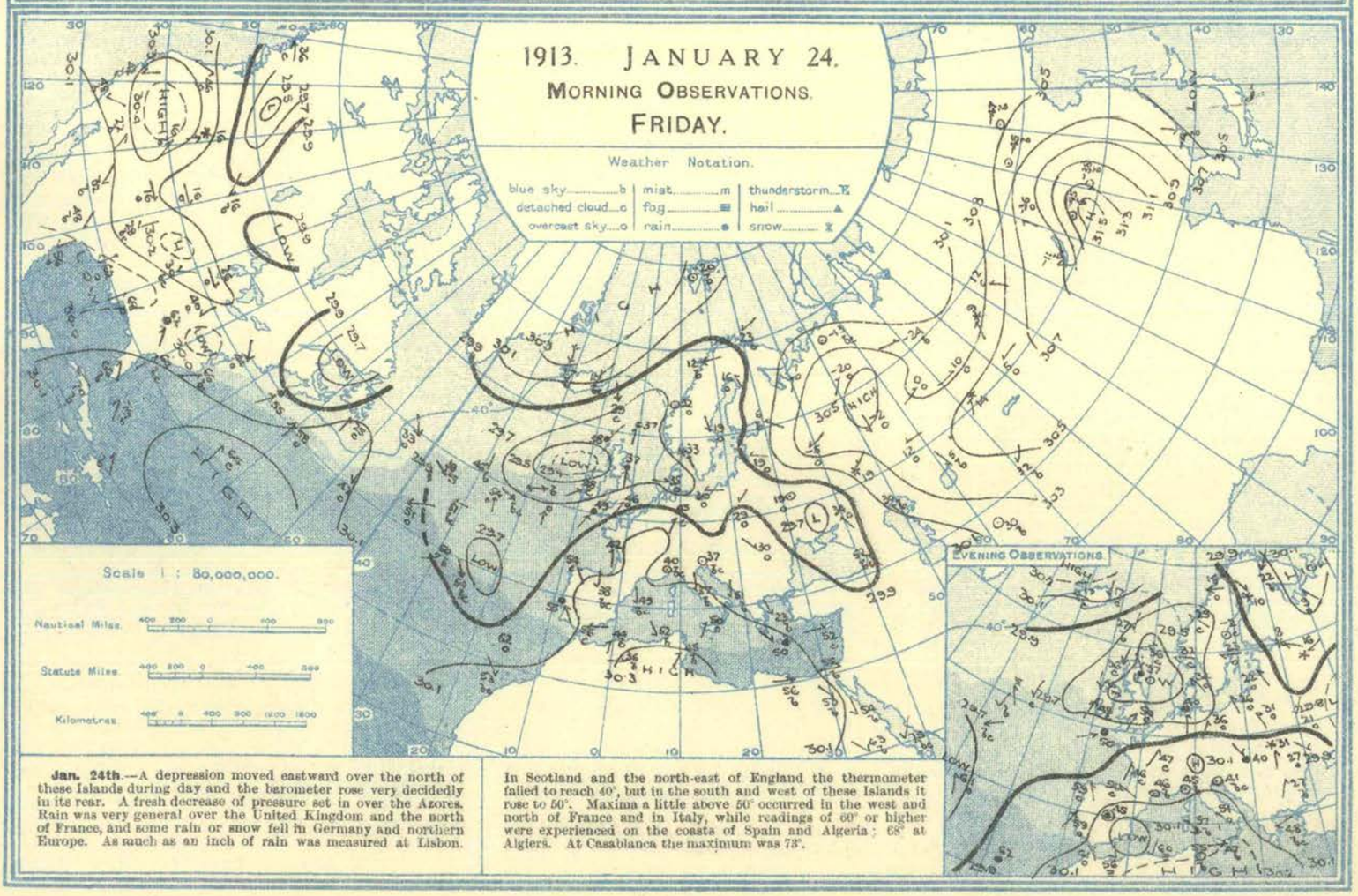


Jan. 22nd.—A depression appeared over the north-west of Ireland by evening, and another system over the Azores, while the Spanish anticyclone extended north-eastward. Rain fell very generally in these Islands, with some snow in several places. At Arlington the measurement was 1·6in., and at Cardiff 1·2in. A good deal of rain occurred in France, some parts of Italy, and in south-eastern Europe; 0·7in. at Toulouse, 0·8in. at Brindisi, and 1·5in. at Constantinople. Slight snow was experienced in central Europe. Temperature rose decidedly over the United Kingdom during the night after remaining low during the day. Severe frost continued in the north and north-east of the Continent, and over a large area in the central countries the maxima were below 40°. Readings above 60° were again recorded at some stations in the far south.



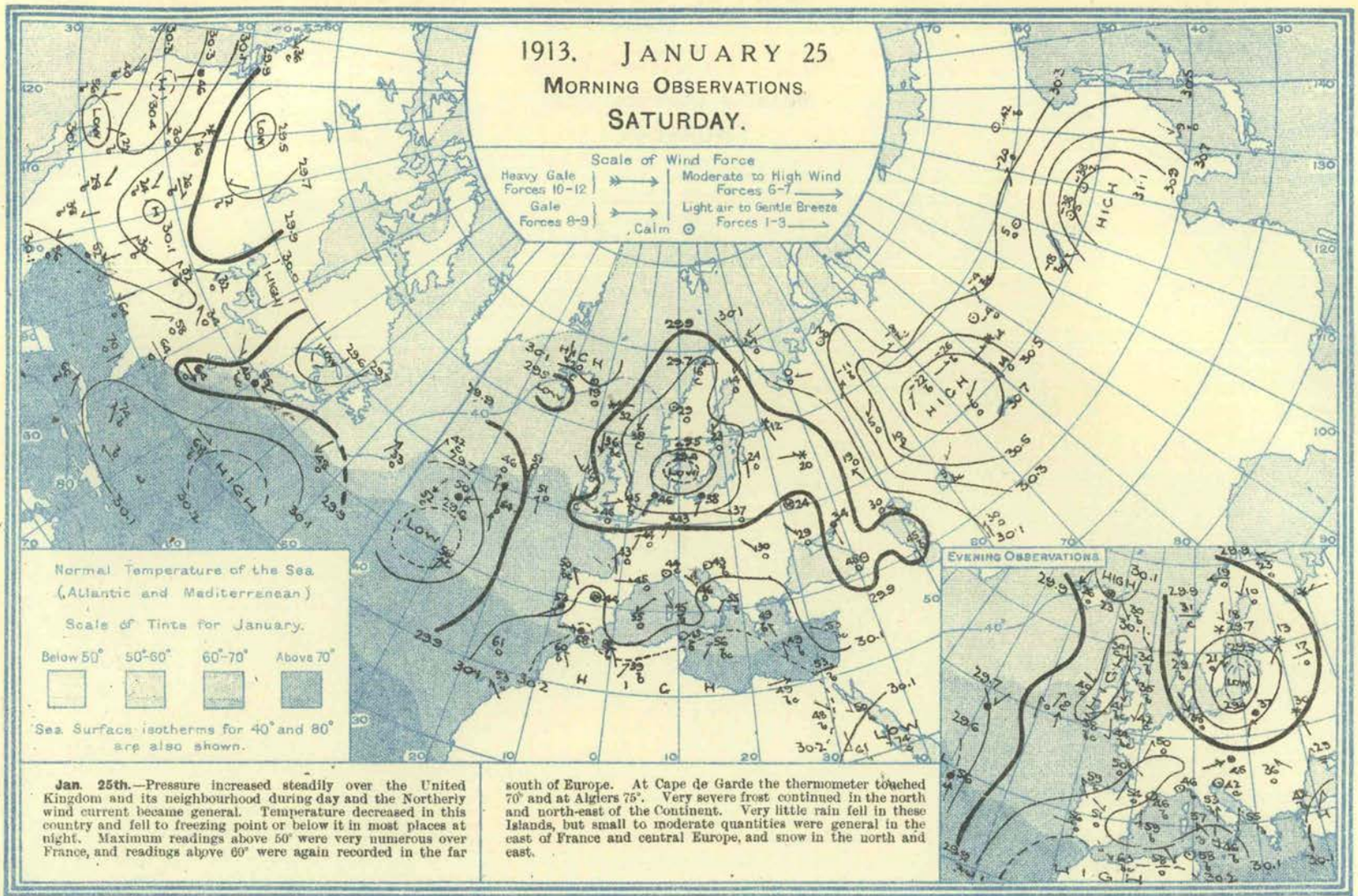
Jan. 23rd.—A depression over Scotland moved to the North Sea by the evening and became less deep, but little change occurred in the general distribution of pressure. Rain fell in most parts of these Islands, slightly in many places, but heavily at Blacksod Point and Lerwick. Rain in various quantities was also experienced in central Europe, Switzerland, and the east of France, and some snow in Poland and southern Russia.

Maximum temperature readings a little above 50° were common in the west and south of these Islands, but in the north and north-east they were below 40°; only 35° at Nairn. Maxima above 60° were recorded at a few places in the far south of our area, but in Italy they were no higher than in the south and west of these Islands. Hard frost continued over Scandinavia and Russia.



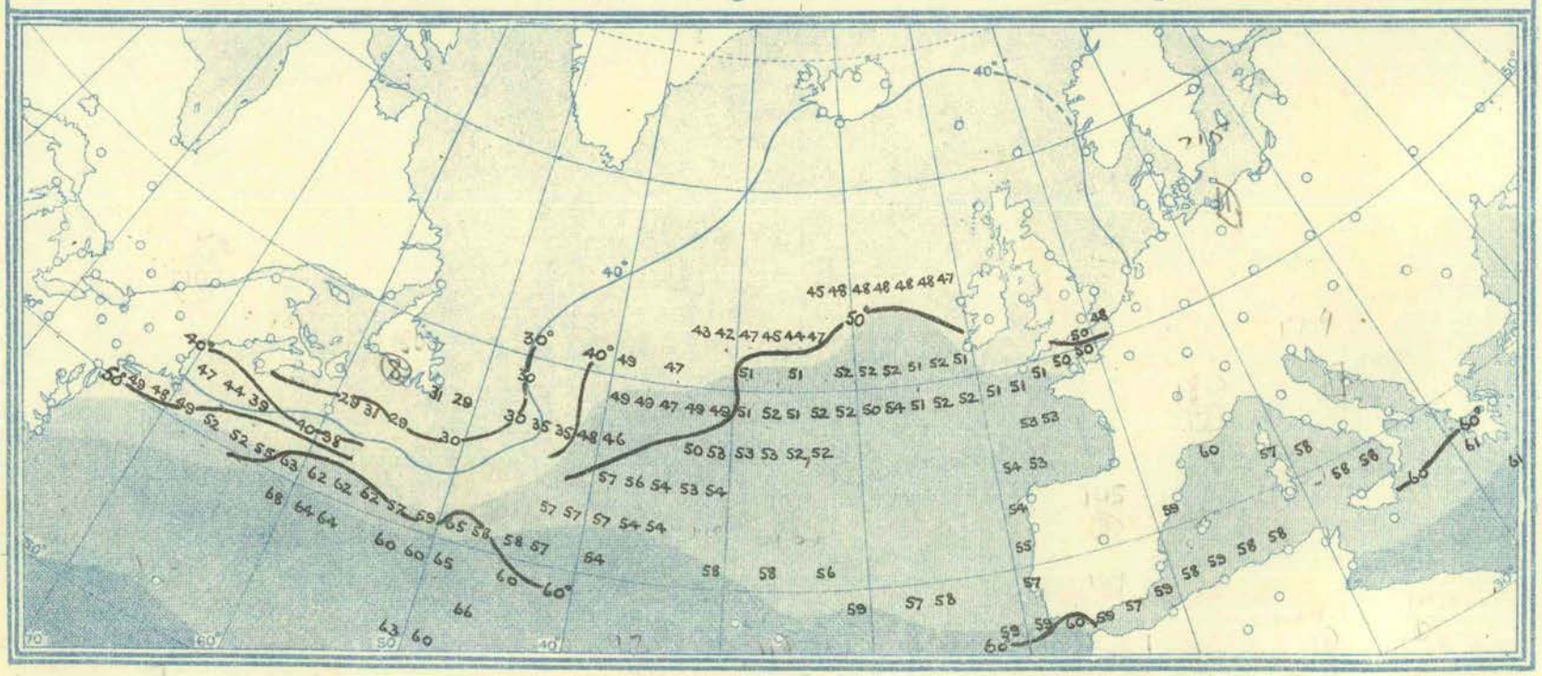
Jan. 24th.—A depression moved eastward over the north of these Islands during day and the barometer rose very decidedly in its rear. A fresh decrease of pressure set in over the Azores. Rain was very general over the United Kingdom and the north of France, and some rain or snow fell in Germany and northern Europe. As much as an inch of rain was measured at Lisbon.

In Scotland and the north-east of England the thermometer failed to reach 40°, but in the south and west of these Islands it rose to 50°. Maxima a little above 50° occurred in the west and north of France and in Italy, while readings of 60° or higher were experienced on the coasts of Spain and Algeria; 68° at Algiers. At Casablanca the maximum was 73°.



Jan. 25th.—Pressure increased steadily over the United Kingdom and its neighbourhood during day and the Northerly wind current became general. Temperature decreased in this country and fell to freezing point or below it in most places at night. Maximum readings above 50° were very numerous over France, and readings above 60° were again recorded in the far south of Europe. At Cape de Garde the thermometer touched 70° and at Algiers 75°. Very severe frost continued in the north and north-east of the Continent. Very little rain fell in these Islands, but small to moderate quantities were general in the east of France and central Europe, and snow in the north and east.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 25TH JANUARY, 1913.



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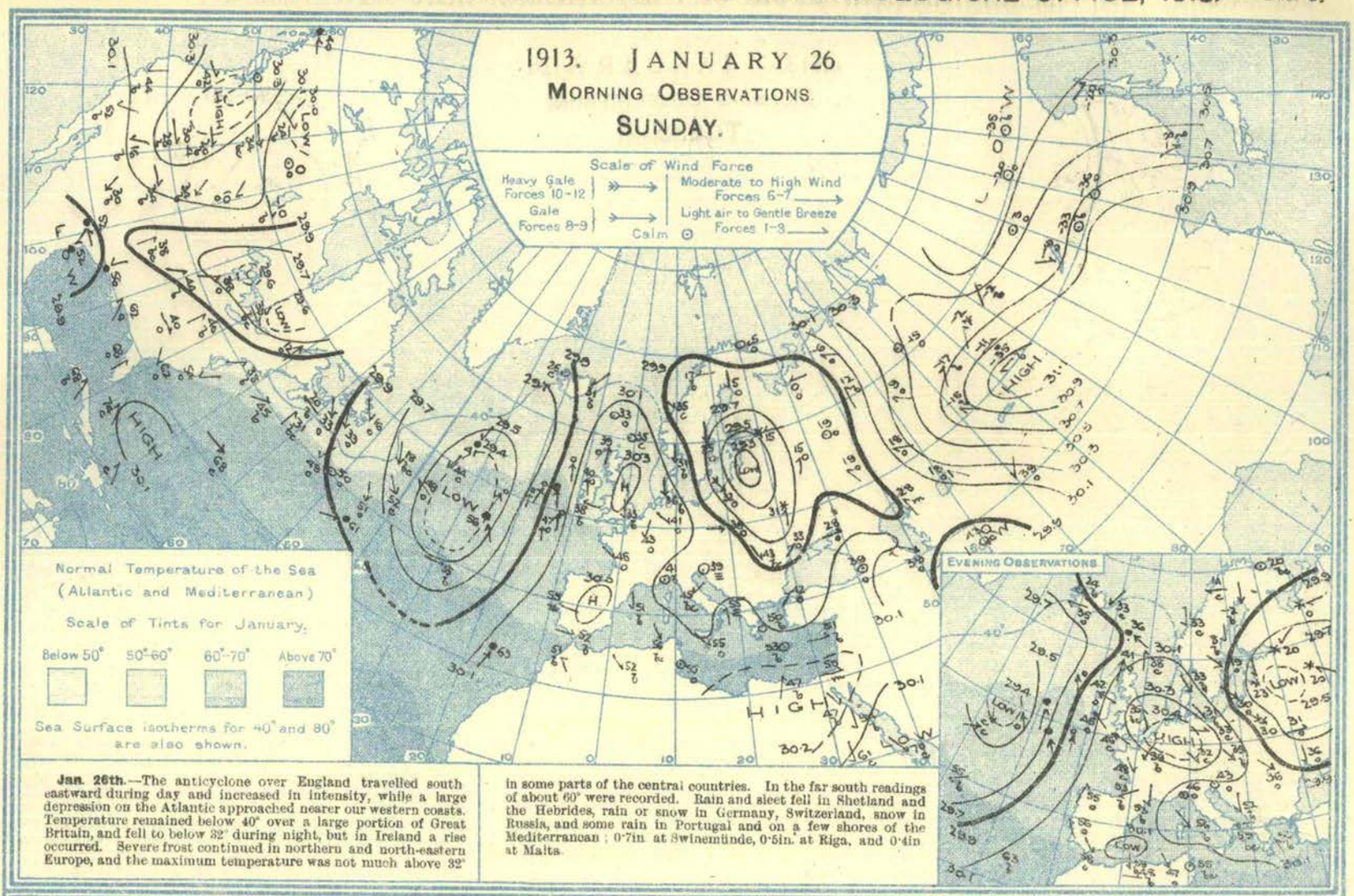
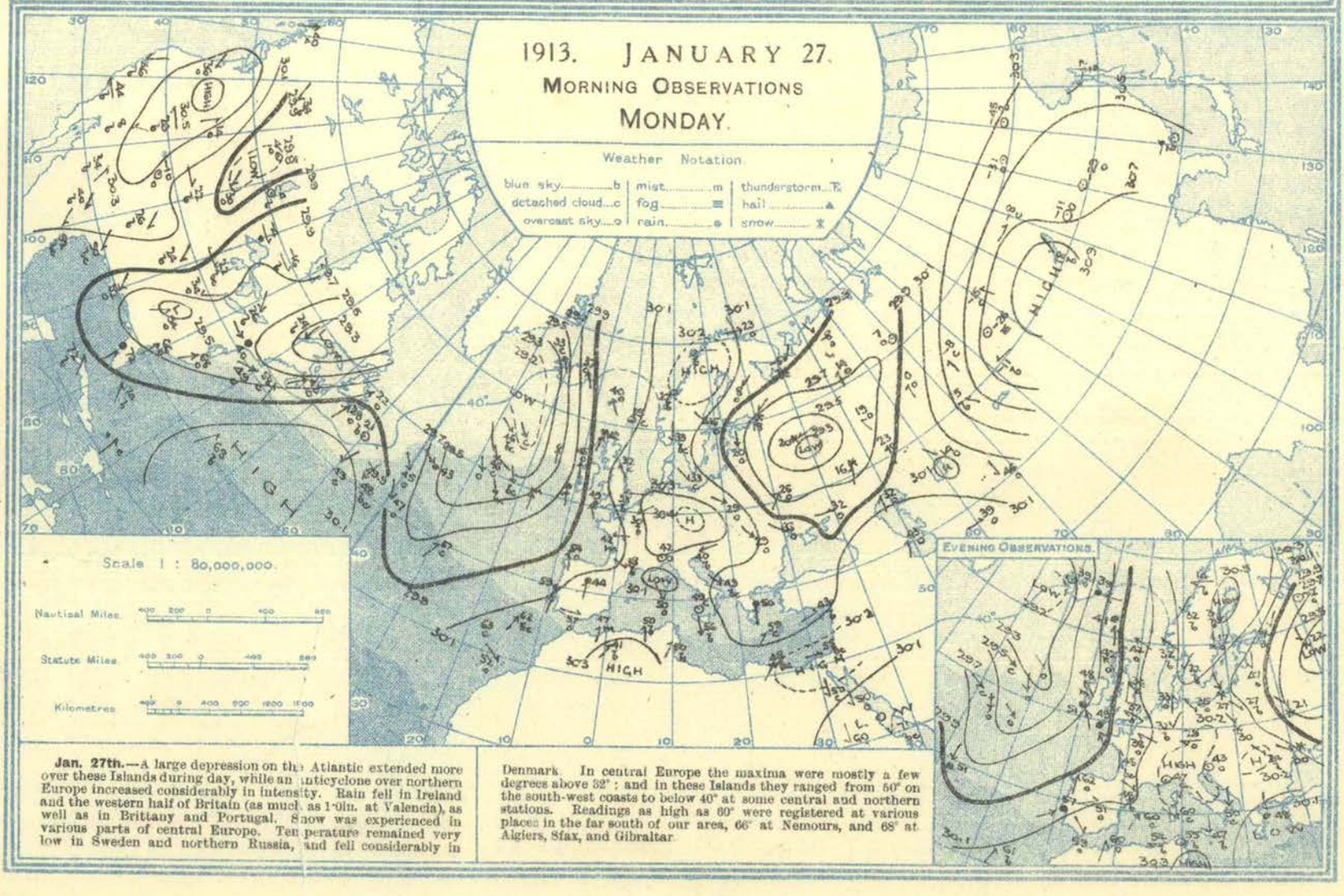
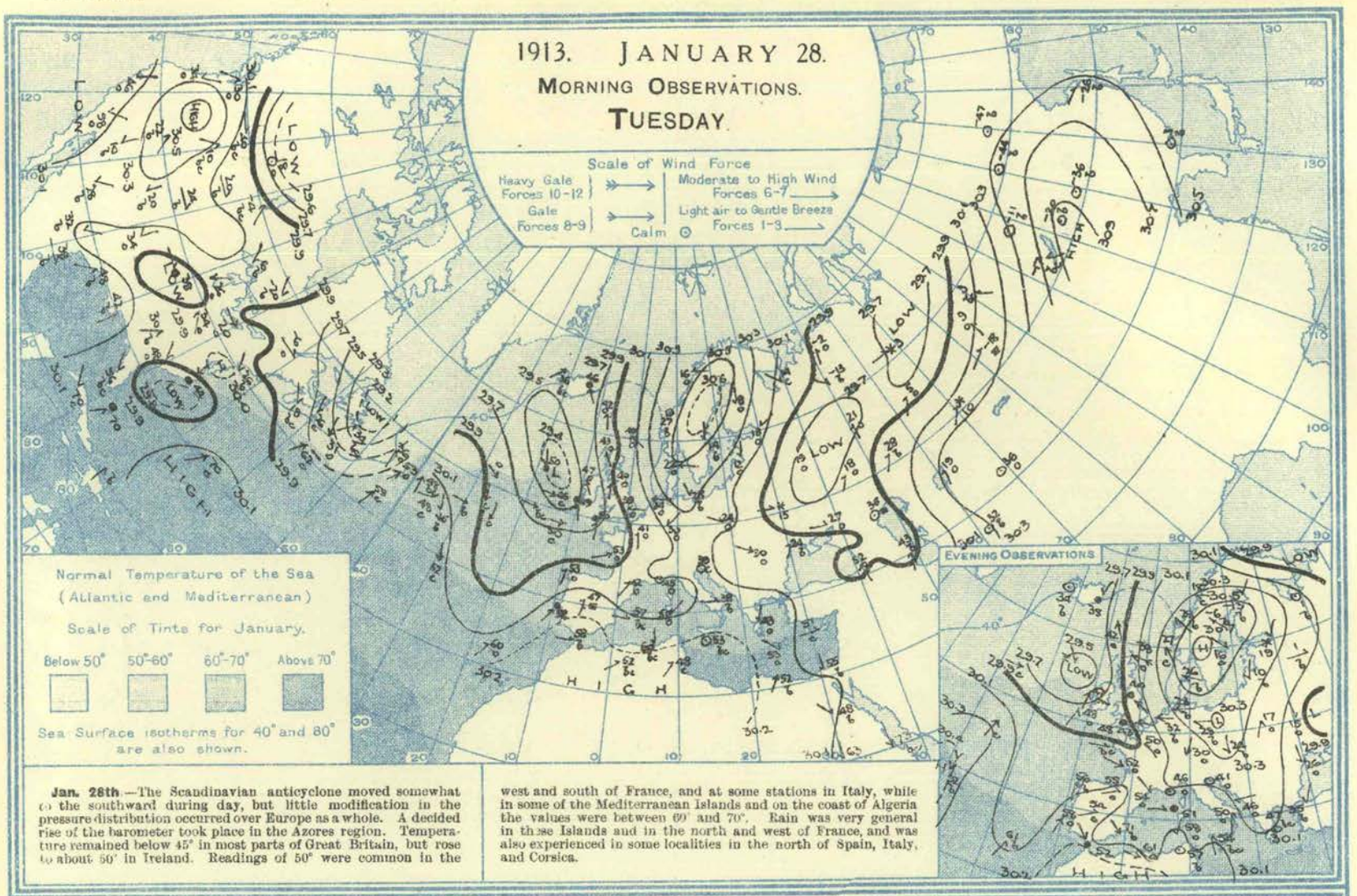


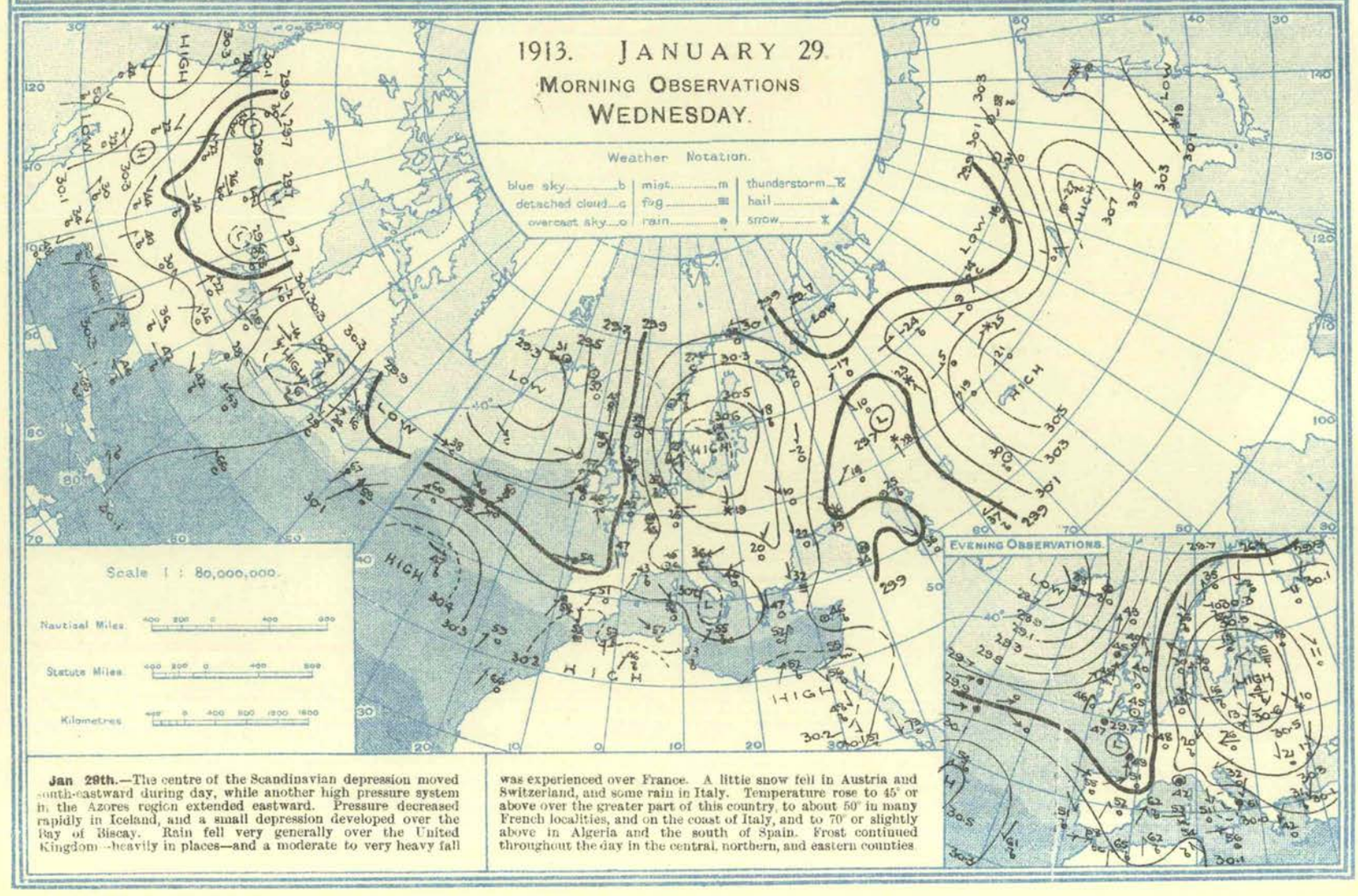
Jan. 26th.—The anticyclone over England travelled south eastward during day and increased in intensity, while a large depression on the Atlantic approached nearer our western coasts. Temperature remained below 40° over a large portion of Great Britain, and fell to below 32° during night, but in Ireland a rise occurred. Severe frost continued in northern and north-eastern Europe, and the maximum temperature was not much above 32° in some parts of the central countries. In the far south readings of about 60° were recorded. Rain and sleet fell in Shetland and the Hebrides, rain or snow in Germany, Switzerland, snow in Russia, and some rain in Portugal and on a few shores of the Mediterranean; 0·7in. at Swinemünde, 0·5in. at Riga, and 0·4in at Malta.



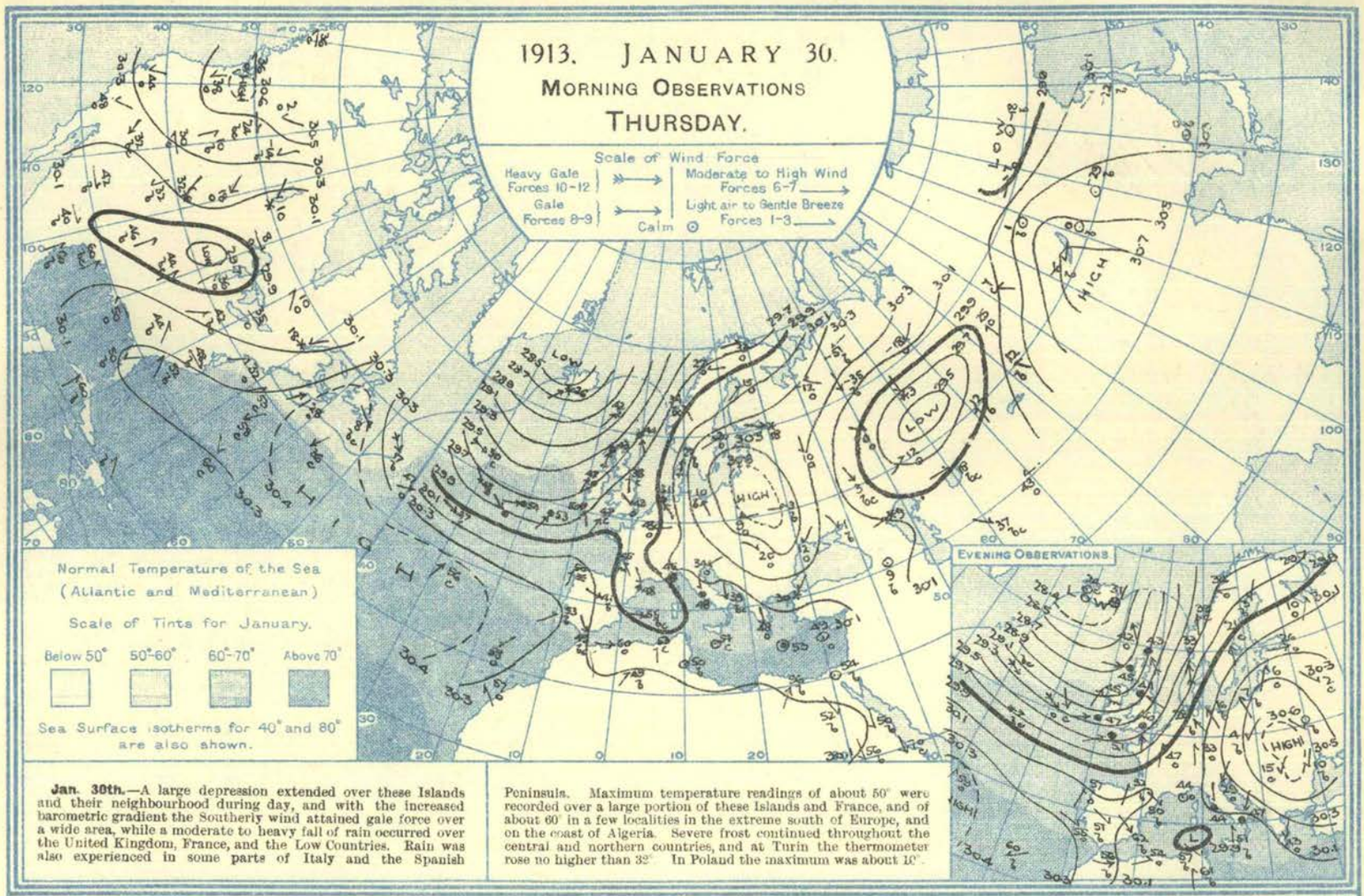
Jan. 27th.—A large depression on the Atlantic extended more over these Islands during day, while an anticyclone over northern Europe increased considerably in intensity. Rain fell in Ireland and the western half of Britain (as much as 1·0in. at Valencia), as well as in Brittany and Portugal. Snow was experienced in various parts of central Europe. Temperature remained very low in Sweden and northern Russia, and fell considerably in Denmark. In central Europe the maxima were mostly a few degrees above 32°; and in these Islands they ranged from 50° on the south-west coasts to below 40° at some central and northern stations. Readings as high as 60° were registered at various places in the far south of our area, 66° at Nemours, and 68° at Algiers, Sfax, and Gibraltar.



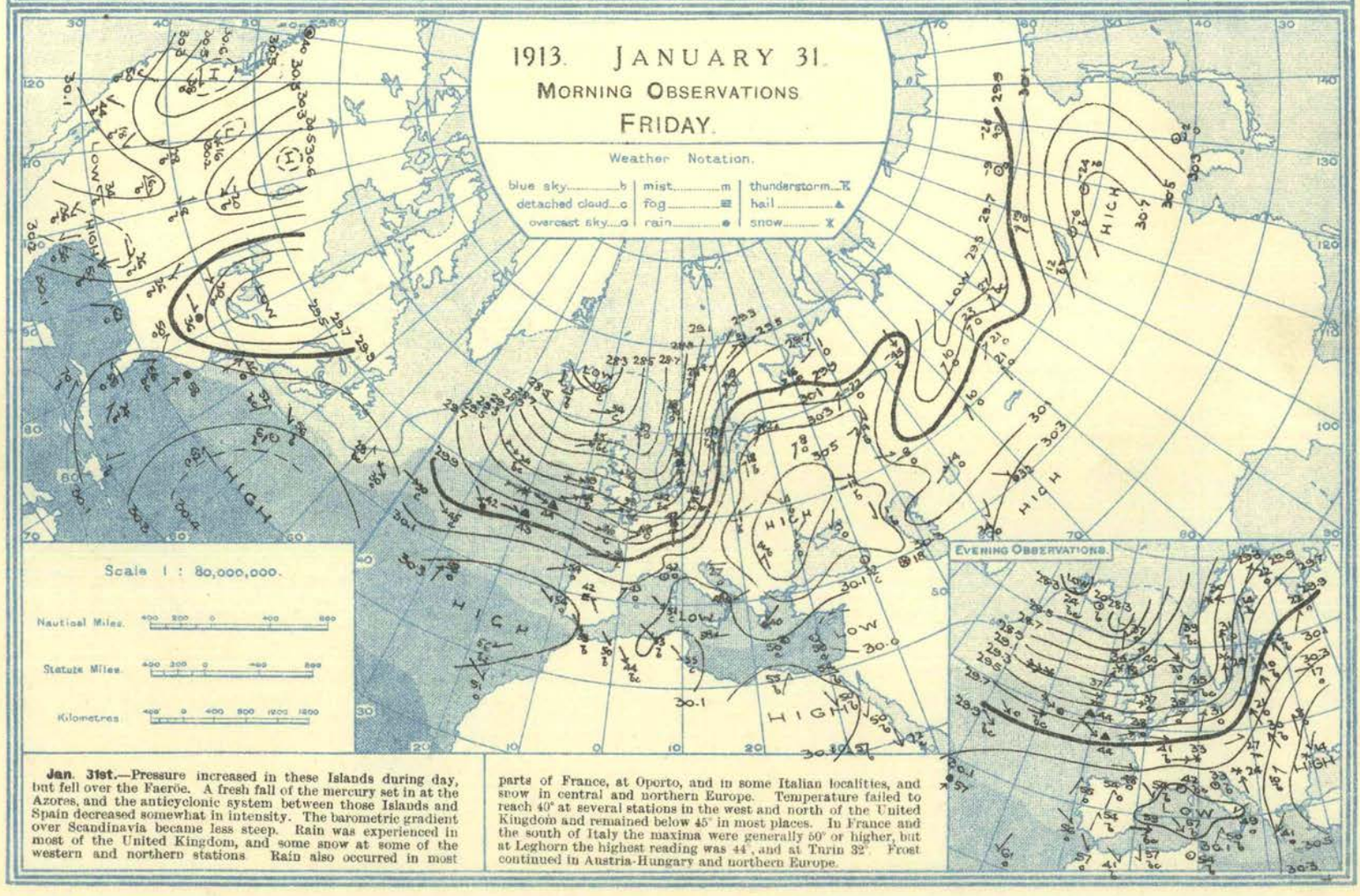
Jan. 28th.—The Scandinavian anticyclone moved somewhat to the southward during day, but little modification in the pressure distribution occurred over Europe as a whole. A decided rise of the barometer took place in the Azores region. Temperature remained below 45° in most parts of Great Britain, but rose to about 50° in Ireland. Readings of 50° were common in the west and south of France, and at some stations in Italy, while in some of the Mediterranean Islands and on the coast of Algeria the values were between 69° and 70°. Rain was very general in these Islands and in the north and west of France, and was also experienced in some localities in the north of Spain, Italy, and Corsica.



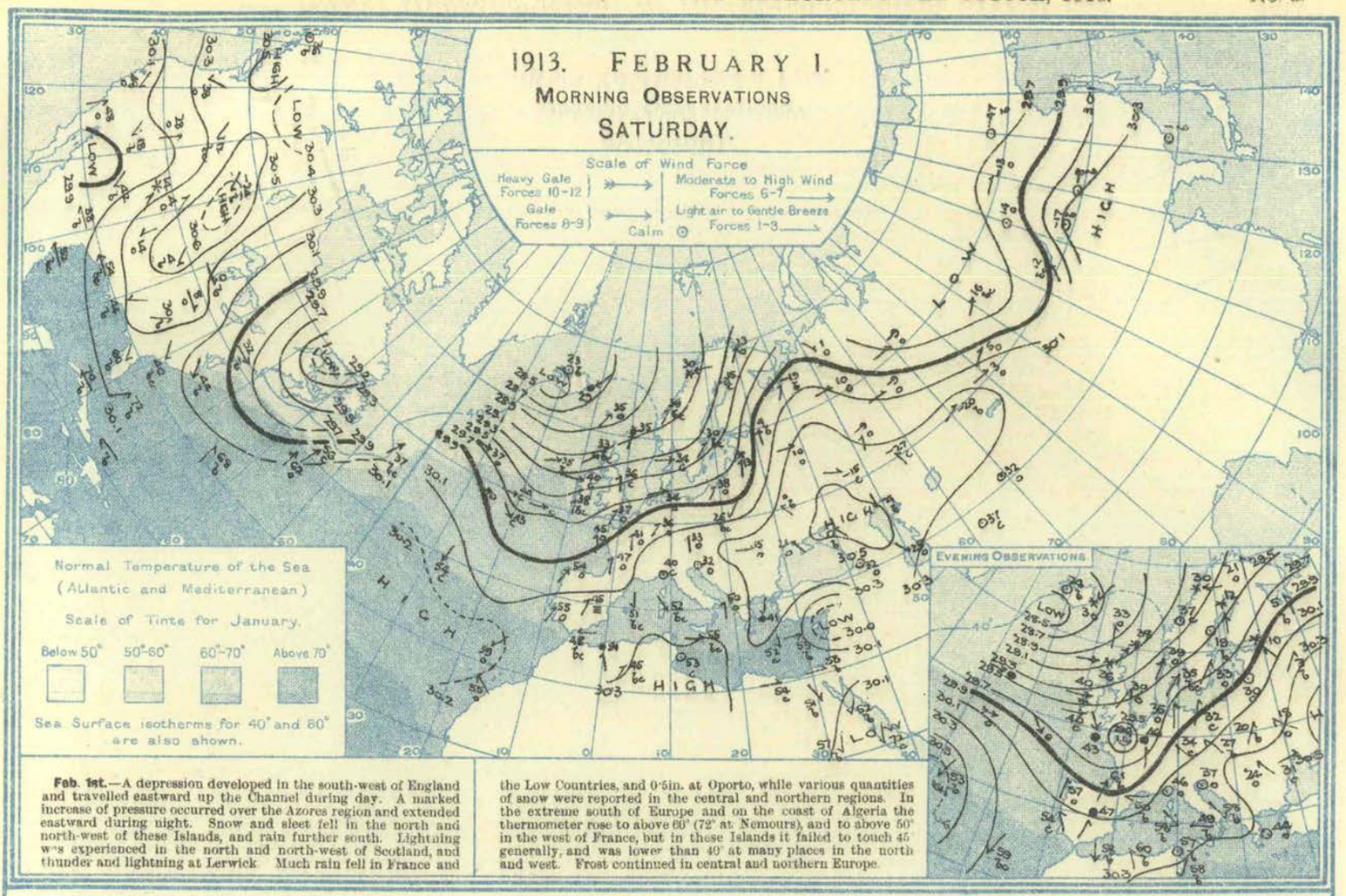
Jan 29th.—The centre of the Scandinavian depression moved south-eastward during day, while another high pressure system in the Azores region extended eastward. Pressure decreased rapidly in Iceland, and a small depression developed over the Bay of Biscay. Rain fell very generally over the United Kingdom—heavily in places—and a moderate to very heavy fall was experienced over France. A little snow fell in Austria and Switzerland, and some rain in Italy. Temperature rose to 45° or above over the greater part of this country, to about 50° in many French localities, and on the coast of Italy, and to 70° or slightly above in Algeria and the south of Spain. Frost continued throughout the day in the central, northern, and eastern counties



Jan. 30th.—A large depression extended over these Islands and their neighbourhood during day, and with the increased barometric gradient the Southerly wind attained gale force over a wide area, while a moderate to heavy fall of rain occurred over the United Kingdom, France, and the Low Countries. Rain was also experienced in some parts of Italy and the Spanish Peninsula. Maximum temperature readings of about 50° were recorded over a large portion of these Islands and France, and of about 60° in a few localities in the extreme south of Europe, and on the coast of Algeria. Severe frost continued throughout the central and northern countries, and at Turin the thermometer rose no higher than 32°. In Poland the maximum was about 16°.

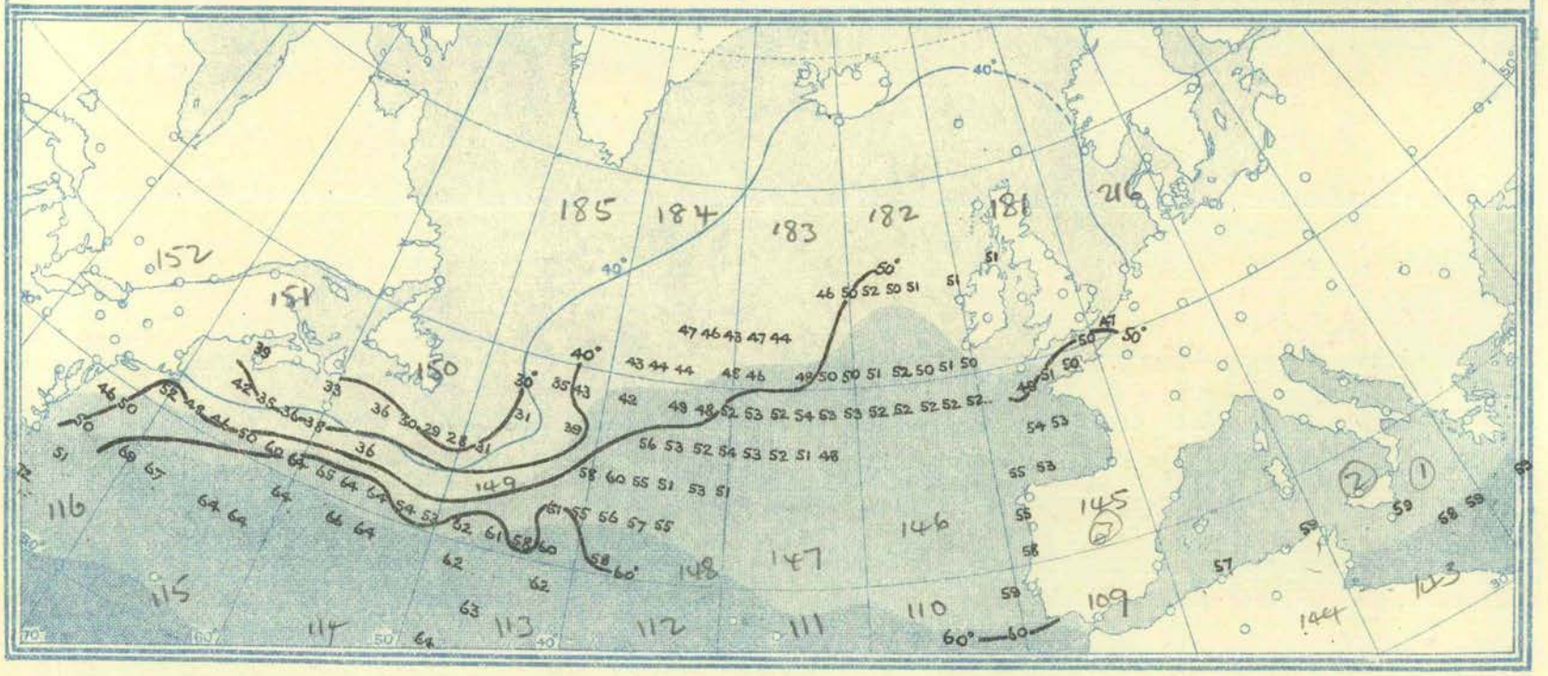


Jan. 31st.—Pressure increased in these Islands during day, but fell over the Faeröe. A fresh fall of the mercury set in at the Azores, and the anticyclonic system between those Islands and Spain decreased somewhat in intensity. The barometric gradient over Scandinavia became less steep. Rain was experienced in most of the United Kingdom, and some snow at some of the western and northern stations. Rain also occurred in most parts of France, at Oporto, and in some Italian localities, and snow in central and northern Europe. Temperature failed to reach 40° at several stations in the west and north of the United Kingdom and remained below 45° in most places. In France and the south of Italy the maxima were generally 50° or higher, but at Leghorn the highest reading was 44°, and at Turin 32°. Frost continued in Austria-Hungary and northern Europe.



Feb. 1st.—A depression developed in the south-west of England and travelled eastward up the Channel during day. A marked increase of pressure occurred over the Azores region and extended eastward during night. Snow and sleet fell in the north and north-west of these Islands, and rain further south. Lightning was experienced in the north and north-west of Scotland, and thunder and lightning at Lerwick. Much rain fell in France and the Low Countries, and 0·5in. at Oporto, while various quantities of snow were reported in the central and northern regions. In the extreme south of Europe and on the coast of Algeria the thermometer rose to above 60° (72° at Nemours), and to above 50° in the west of France, but in these Islands it failed to touch 45° generally, and was lower than 40° at many places in the north and west. Frost continued in central and northern Europe.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 1ST. FEBRUARY, 1913.



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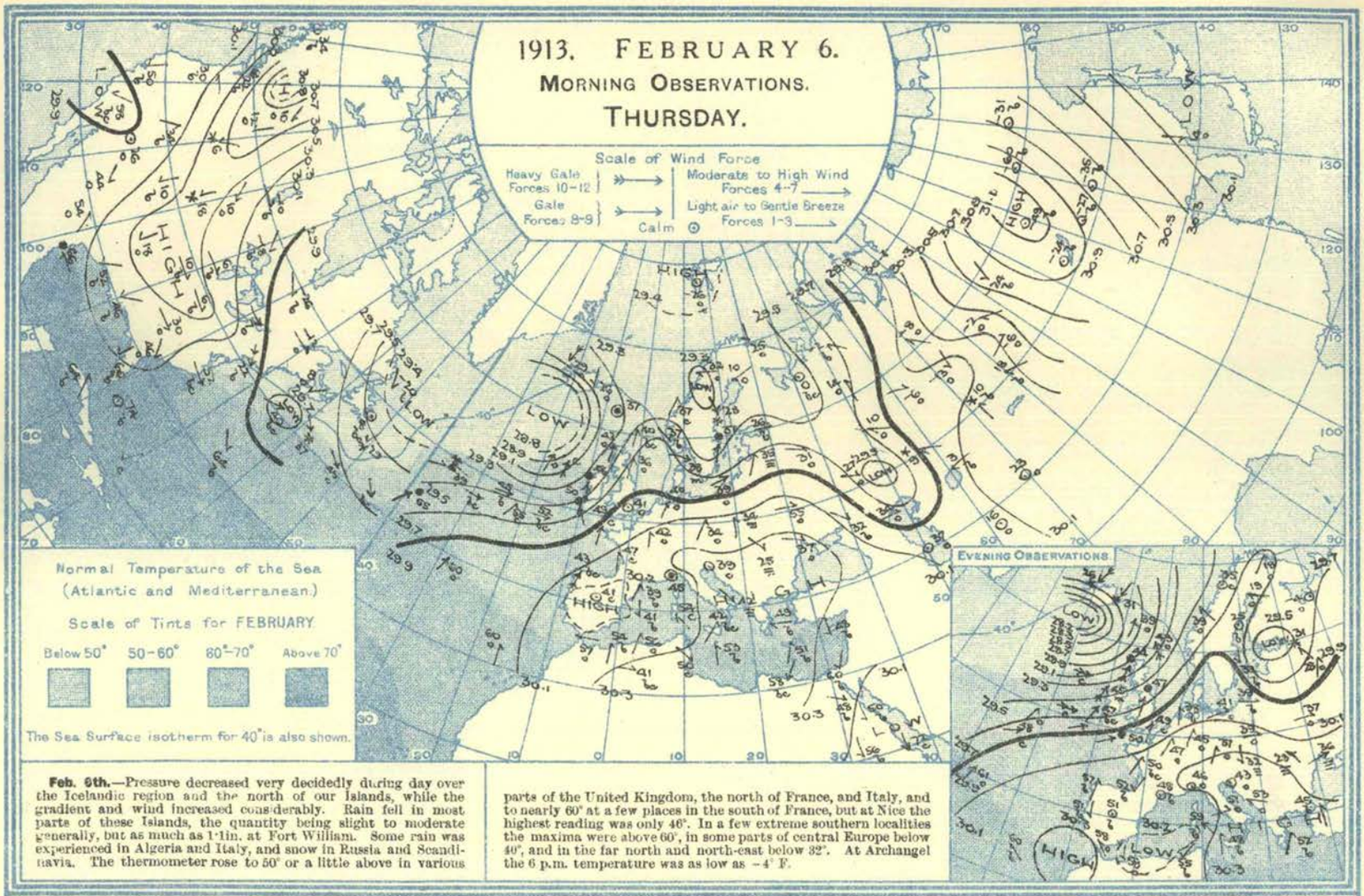
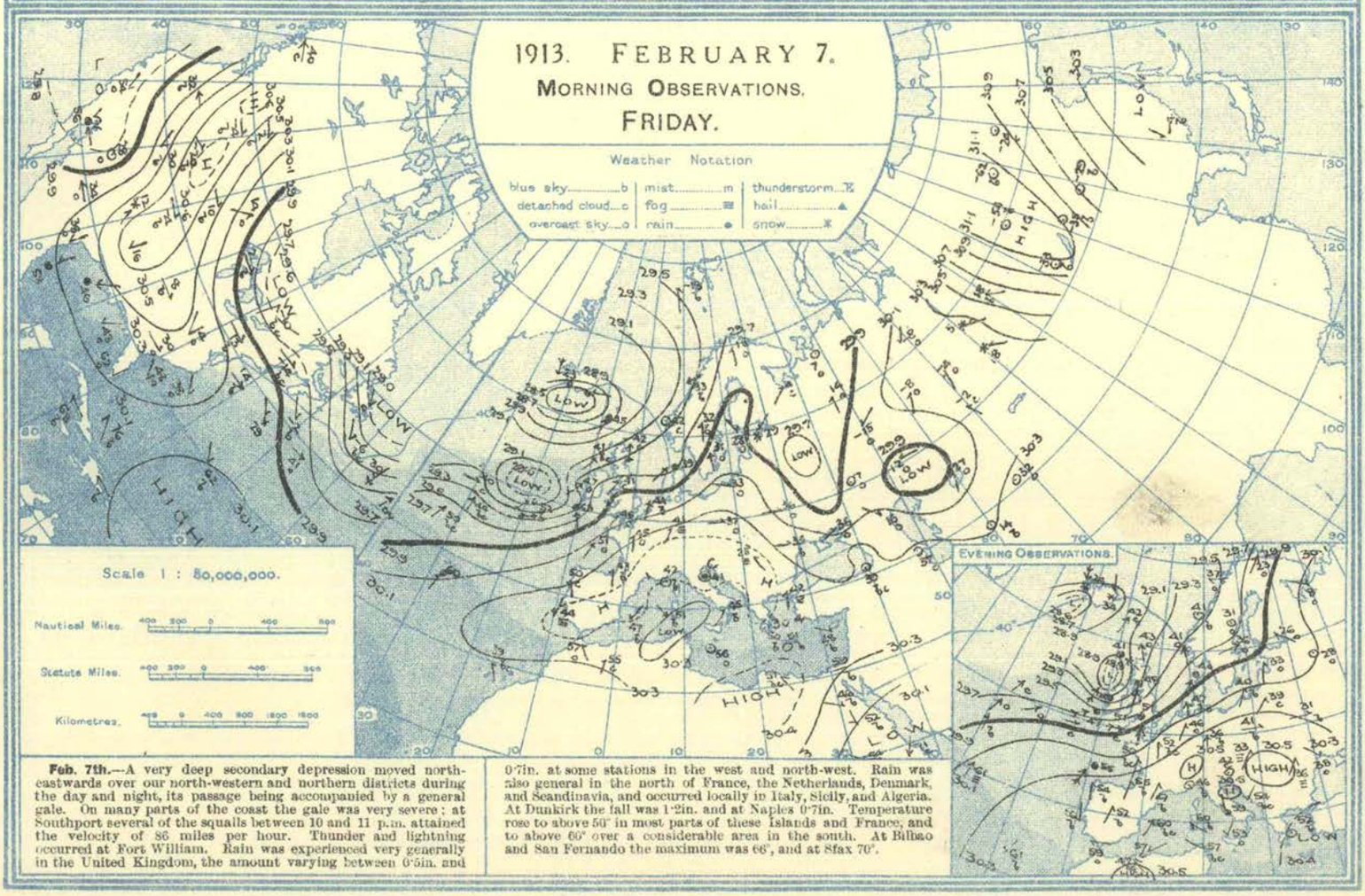
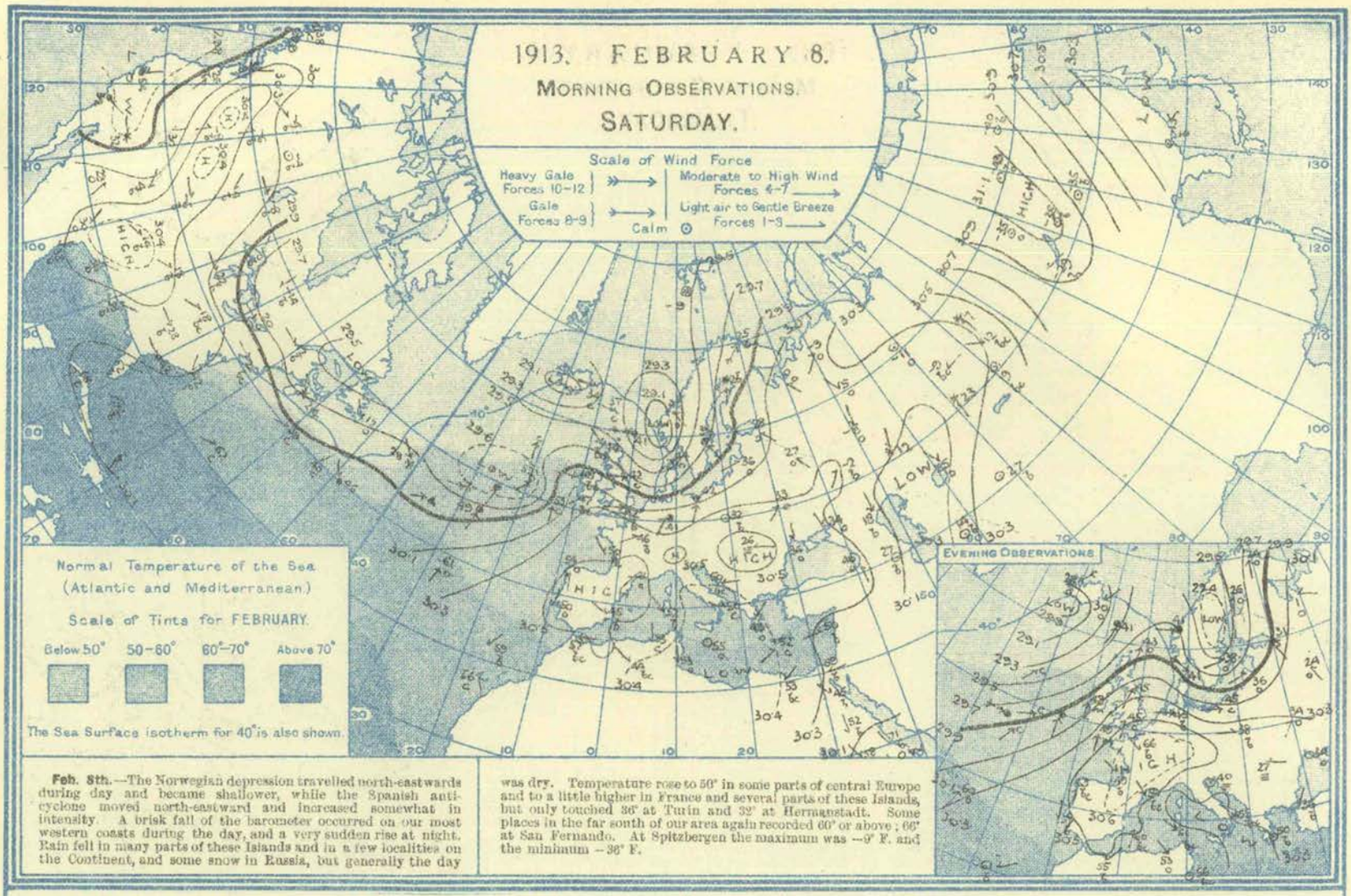


Feb. 6th.—Pressure decreased very decidedly during day over the Icelandic region and the north of our Islands, while the gradient and wind increased considerably. Rain fell in most parts of these Islands, the quantity being slight to moderate generally, but as much as 1·1in. at Fort William. Some rain was experienced in Algeria and Italy, and snow in Russia and Scandinavia. The thermometer rose to 50° or a little above in various parts of the United Kingdom, the north of France, and Italy, and to nearly 60° at a few places in the south of France, but at Nice the highest reading was only 46°. In a few extreme southern localities the maxima were above 60°, in some parts of central Europe below 40°, and in the far north and north-east below 32°. At Archangel the 6 p.m. temperature was as low as −4° F.

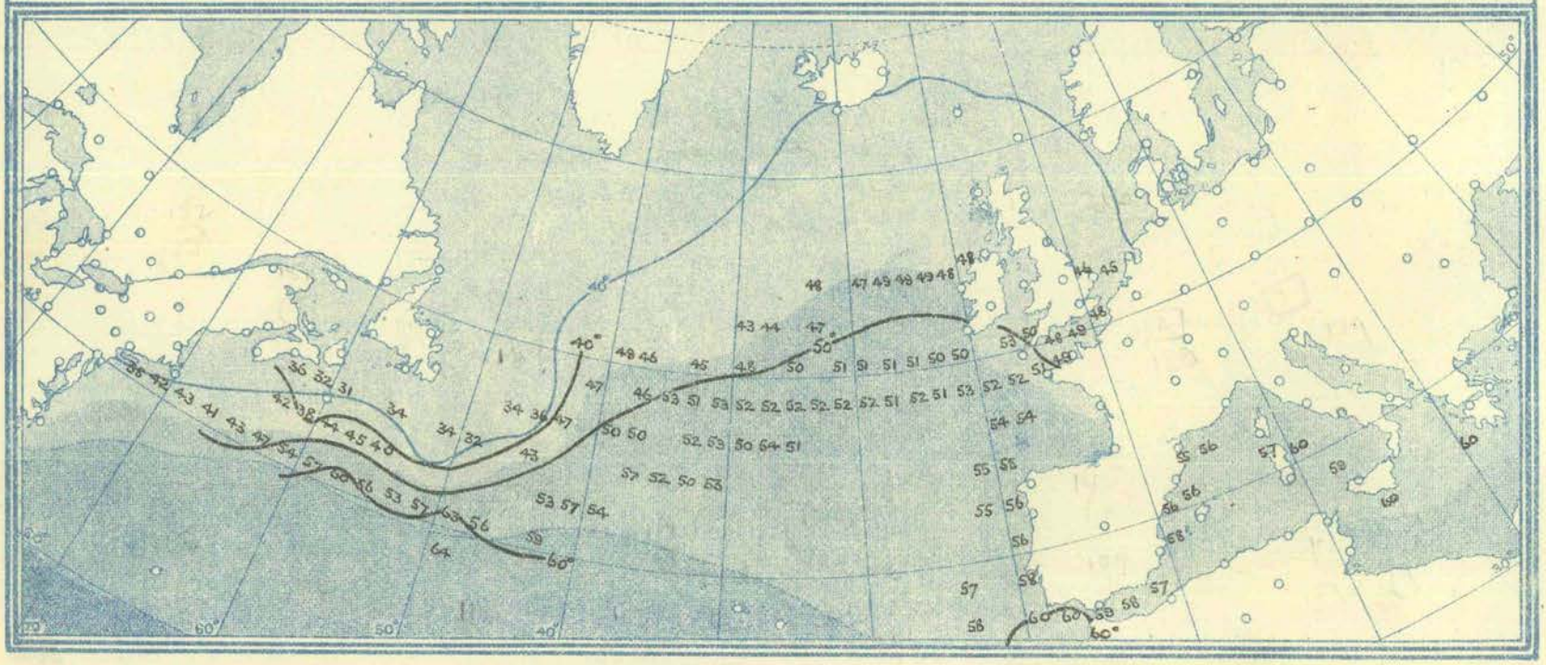


Feb. 7th.—A very deep secondary depression moved north-eastwards over our north-western and northern districts during the day and night, its passage being accompanied by a general gale. On many parts of the coast the gale was very severe; at Southport several of the squalls between 10 and 11 p.m. attained the velocity of 86 miles per hour. Thunder and lightning occurred at Fort William. Rain was experienced very generally in the United Kingdom, the amount varying between 0·5in. and 0·7in. at some stations in the west and north-west. Rain was also general in the north of France, the Netherlands, Denmark, and Scandinavia, and occurred locally in Italy, Sicily, and Algeria. At Dunkirk the fall was 1·2in. and at Naples 0·7in. Temperature rose to above 50° in most parts of these Islands and France, and to above 60° over a considerable area in the south. At Bilbao and San Fernando the maximum was 66°, and at Sfax 70°.



Feb. 8th.—The Norwegian depression travelled north-eastwards during day and became shallower, while the Spanish anti-cyclone moved north-eastward and increased somewhat in intensity. A brisk fall of the barometer occurred on our most western coasts during the day, and a very sudden rise at night. Rain fell in many parts of these Islands and in a few localities on the Continent, and some snow in Russia, but generally the day was dry. Temperature rose to 50° in some parts of central Europe and to a little higher in France and several parts of these Islands, but only touched 36° at Turin and 32° at Hermannstadt. Some places in the far south of our area again recorded 60° or above; 66° at San Fernando. At Spitzbergen the maximum was −9° F. and the minimum −36° F.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 8TH. FEBRUARY, 1913.



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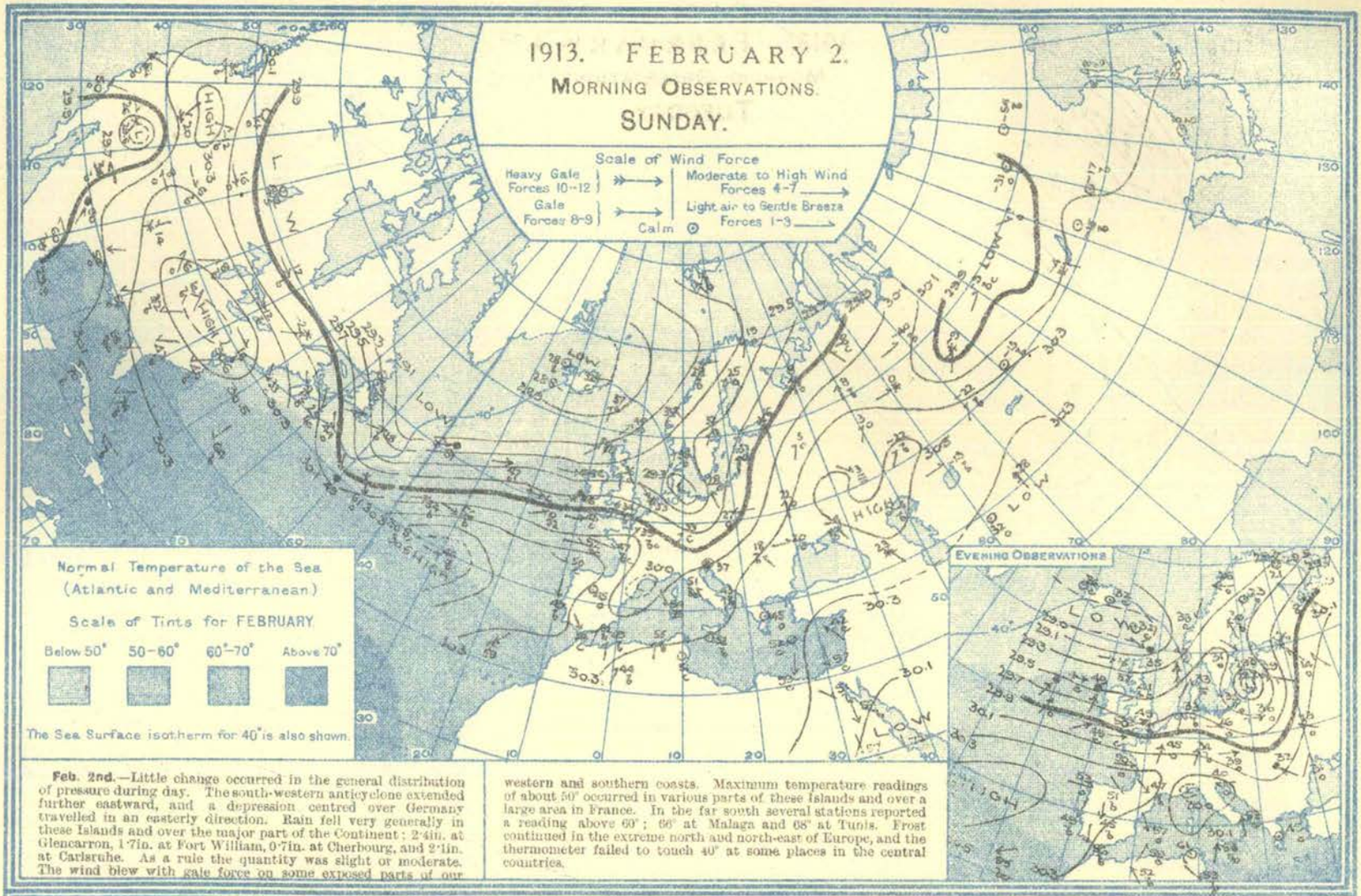
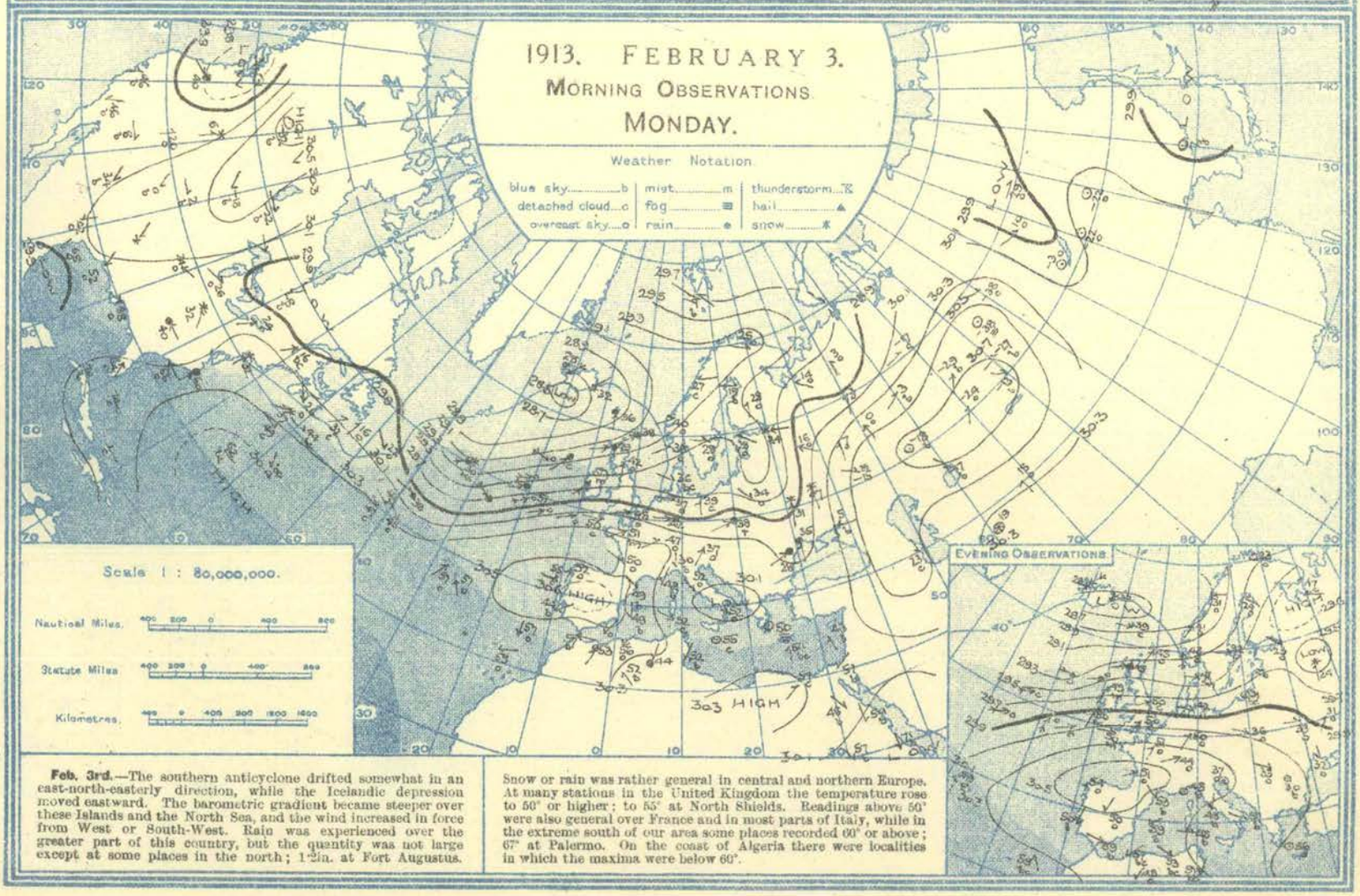
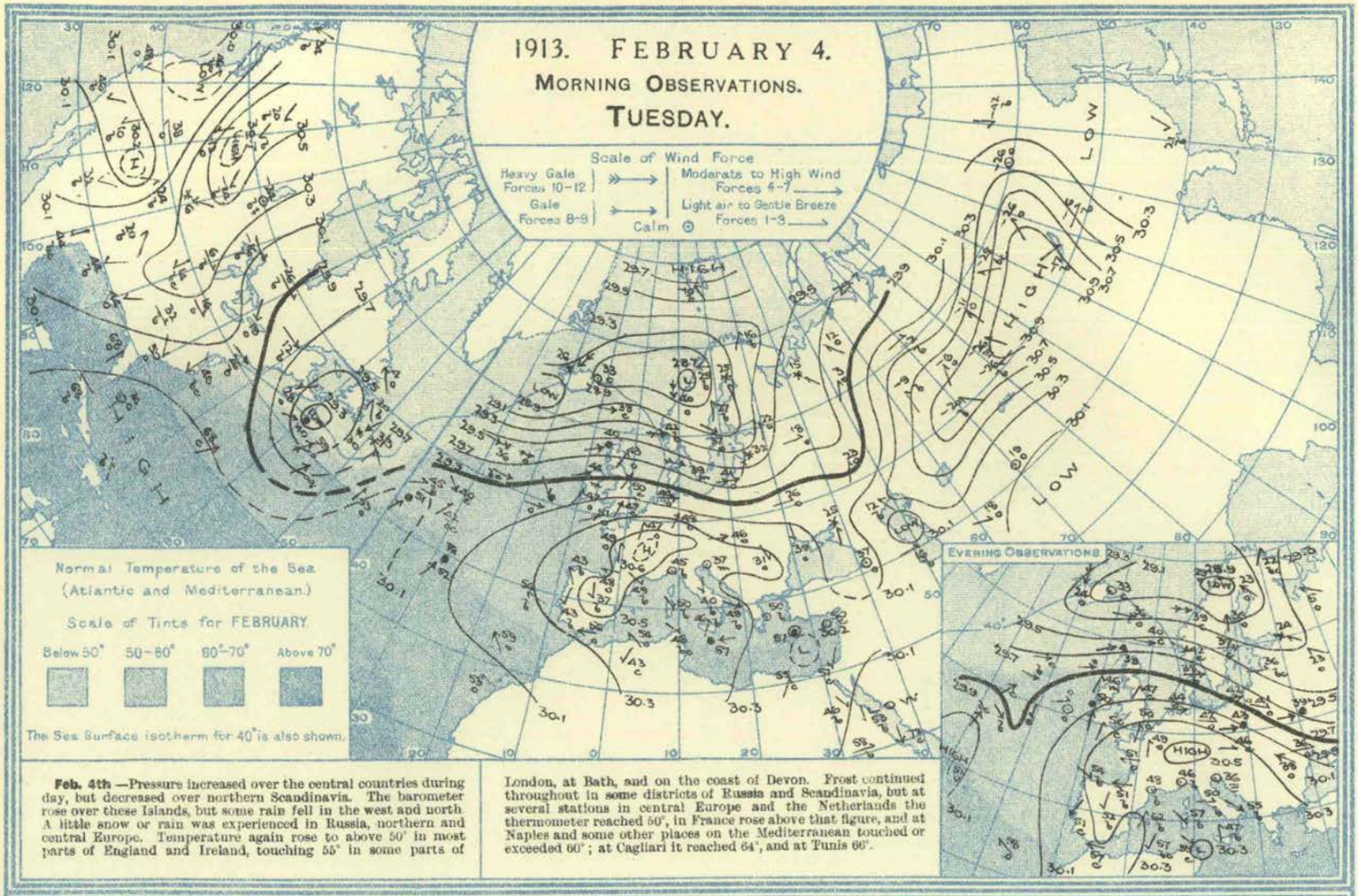


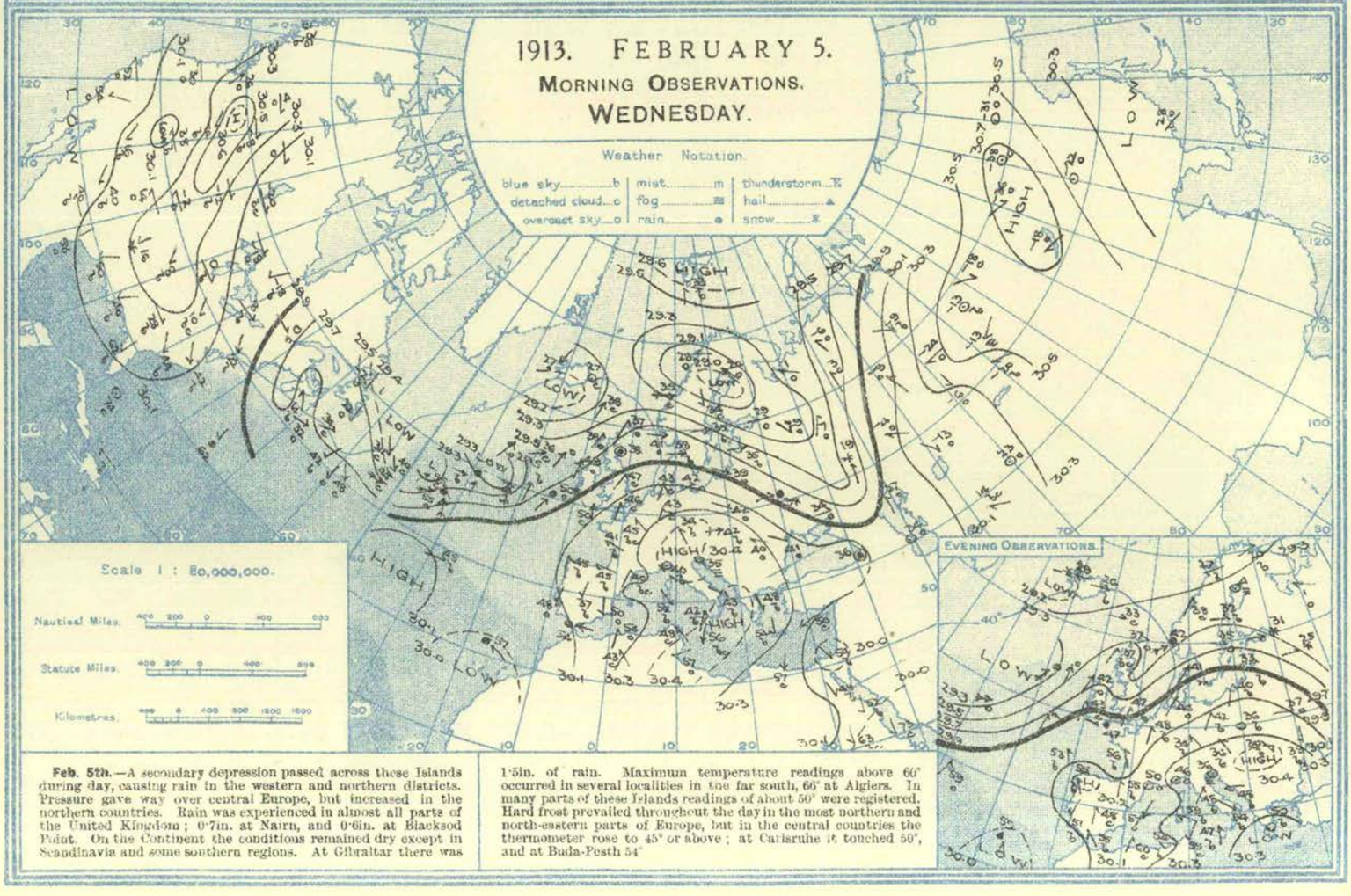
Feb. 2nd.—Little change occurred in the general distribution of pressure during day. The south-western anticyclone extended further eastward, and a depression centred over Germany travelled in an easterly direction. Rain fell very generally in these Islands and over the major part of the Continent; 2·4in. at Glencarron, 1·7in. at Fort William, 0·7in. at Cherbourg, and 2·1in. at Carlsruhe. As a rule the quantity was slight or moderate. The wind blew with gale force on some exposed parts of our western and southern coasts. Maximum temperature readings of about 50° occurred in various parts of these Islands and over a large area in France. In the far south several stations reported a reading above 60°; 66° at Malaga and 68° at Tunis. Frost continued in the extreme north and north-east of Europe, and the thermometer failed to touch 40° at some places in the central countries.



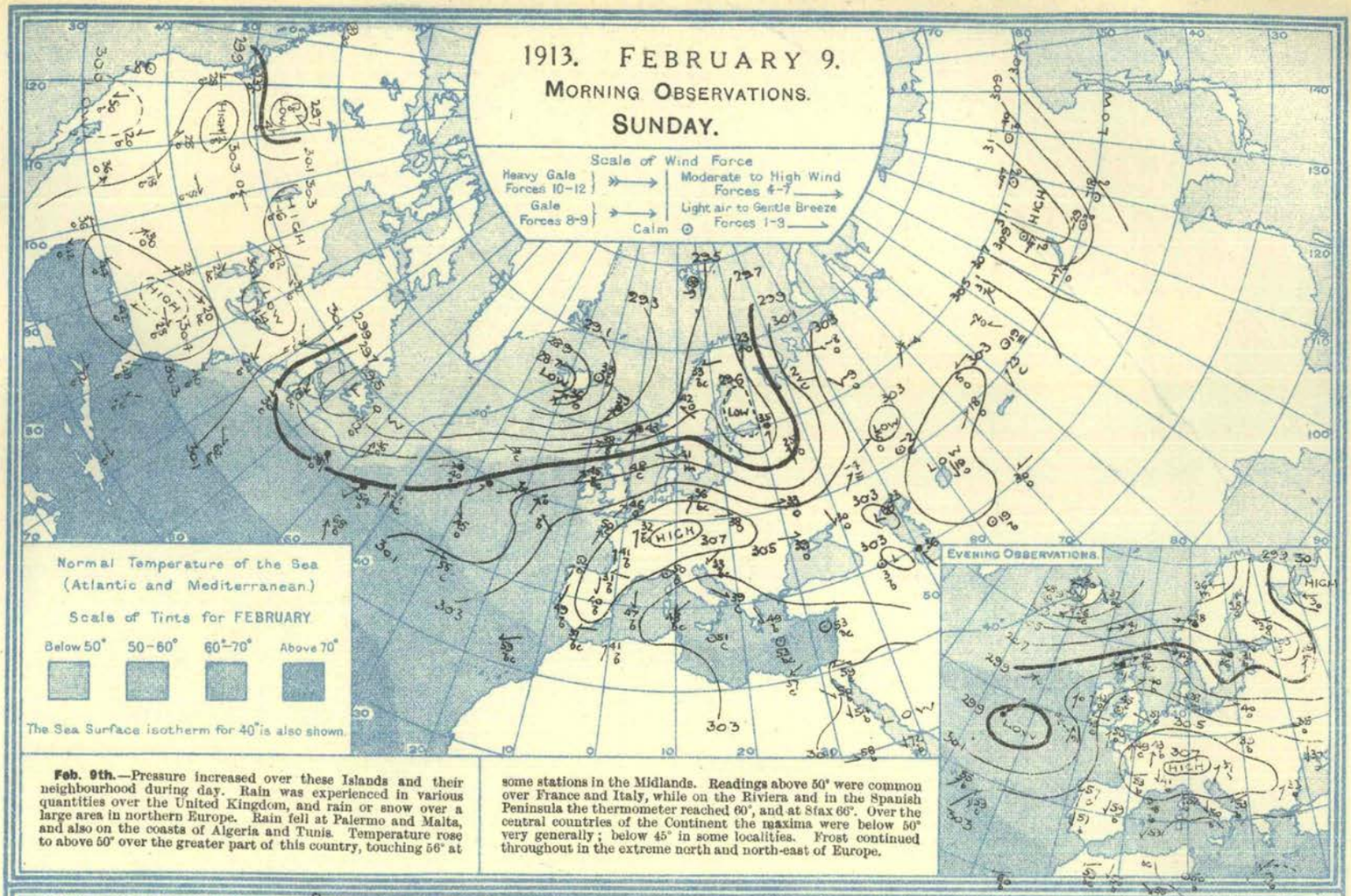
Feb. 3rd.—The southern anticyclone drifted somewhat in an east-north-easterly direction, while the Icelandic depression moved eastward. The barometric gradient became steeper over these Islands and the North Sea, and the wind increased in force from West or South-West. Rain was experienced over the greater part of this country, but the quantity was not large except at some places in the north; 1·2in. at Fort Augustus. Snow or rain was rather general in central and northern Europe. At many stations in the United Kingdom the temperature rose to 50° or higher; to 55° at North Shields. Readings above 50° were also general over France and in most parts of Italy, while in the extreme south of our area some places recorded 60° or above; 67° at Palermo. On the coast of Algeria there were localities in which the maxima were below 60°.



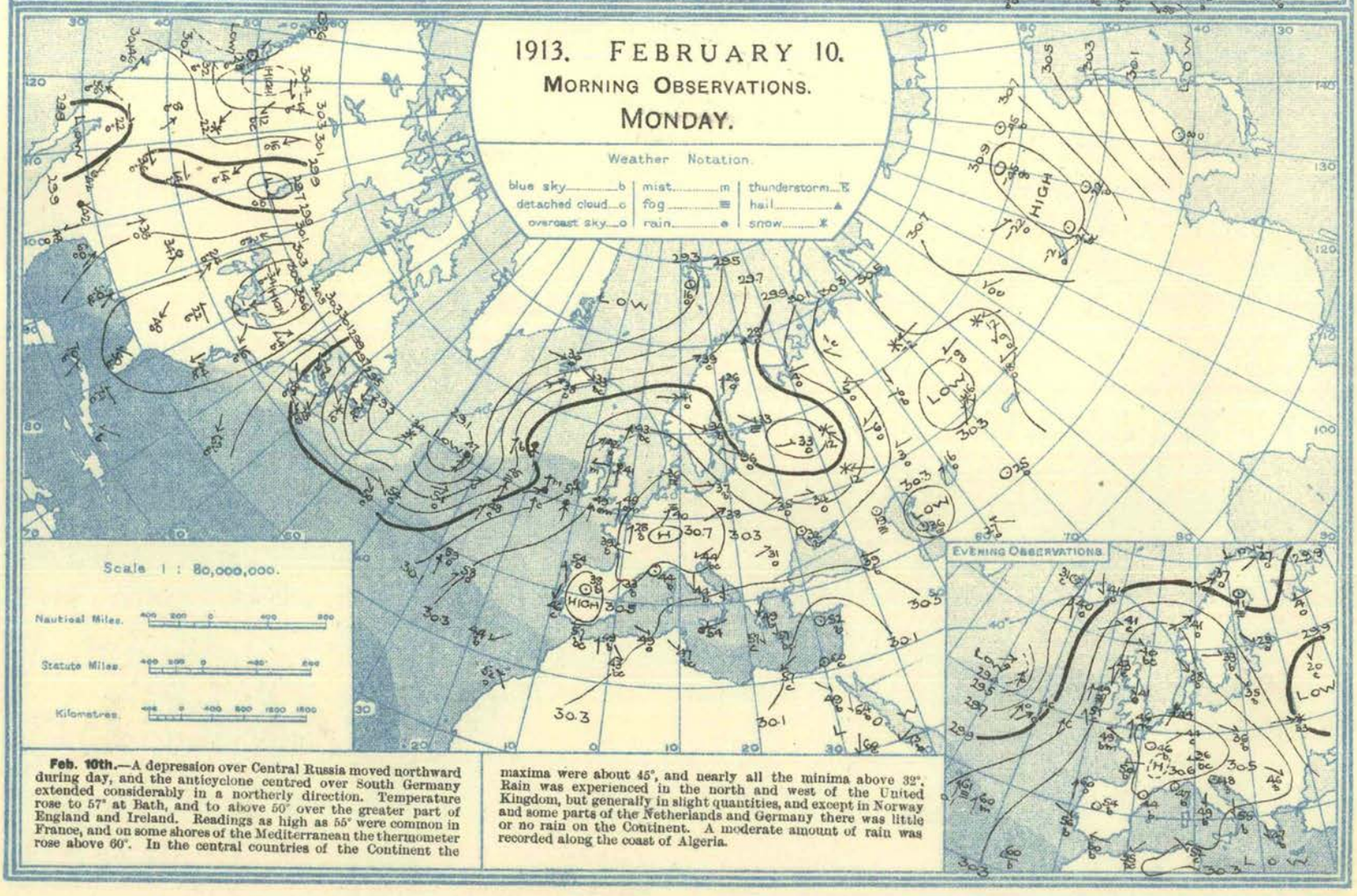
Feb. 4th—Pressure increased over the central countries during day, but decreased over northern Scandinavia. The barometer rose over these Islands, but some rain fell in the west and north. A little snow or rain was experienced in Russia, northern and central Europe. Temperature again rose to above 50° in most parts of England and Ireland, touching 55° in some parts of London, at Bath, and on the coast of Devon. Frost continued throughout in some districts of Russia and Scandinavia, but at several stations in central Europe and the Netherlands the thermometer reached 50°, in France rose above that figure, and at Naples and some other places on the Mediterranean touched or exceeded 60°; at Cagliari it reached 64°, and at Tunis 66°.



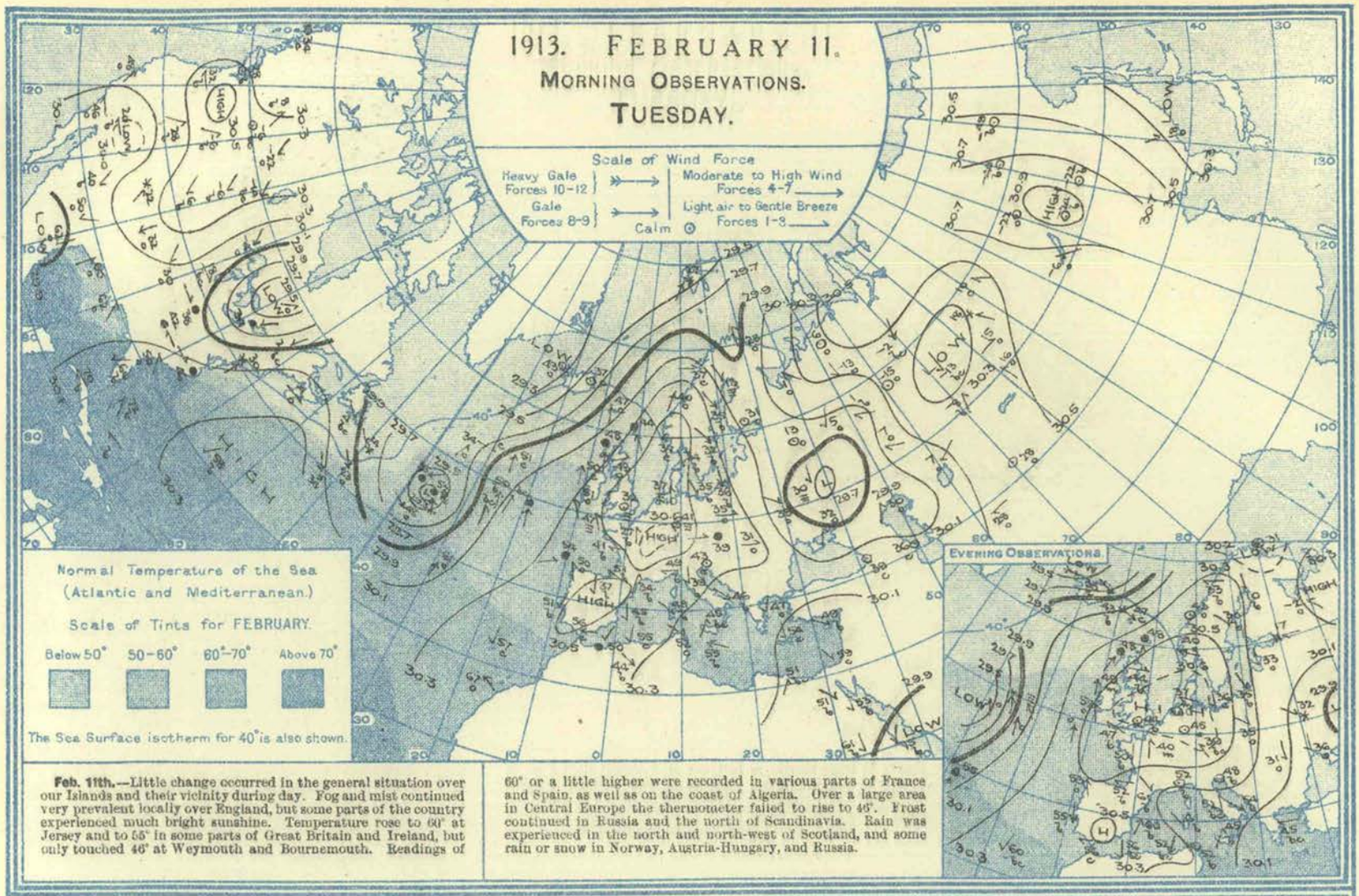
Feb. 5th.—A secondary depression passed across these Islands during day, causing rain in the western and northern districts. Pressure gave way over central Europe, but increased in the northern countries. Rain was experienced in almost all parts of the United Kingdom; 0·7in. at Nairn, and 0·6in. at Blacksod Point. On the Continent the conditions remained dry except in Scandinavia and some southern regions. At Gibraltar there was 1·5in. of rain. Maximum temperature readings above 60° occurred in several localities in the far south, 66° at Algiers. In many parts of these Islands readings of about 50° were registered. Hard frost prevailed throughout the day in the most northern and north-eastern parts of Europe, but in the central countries the thermometer rose to 45° or above; at Carlsruhe it touched 50°, and at Buda-Pesth 54°



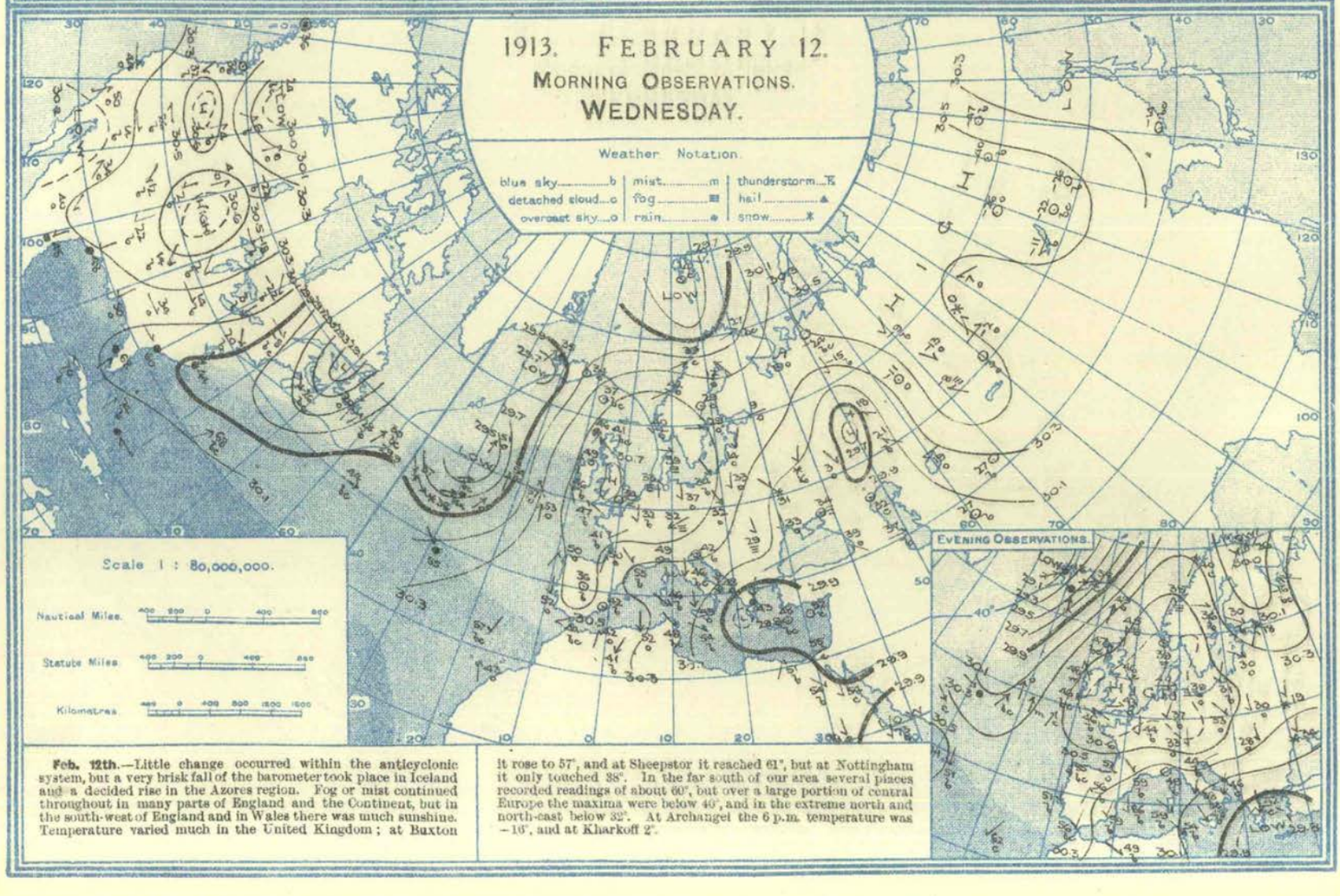
Feb. 9th.—Pressure increased over these Islands and their neighbourhood during day. Rain was experienced in various quantities over the United Kingdom, and rain or snow over a large area in northern Europe. Rain fell at Palermo and Malta, and also on the coasts of Algeria and Tunis. Temperature rose to above 50° over the greater part of this country, touching 56° at some stations in the Midlands. Readings above 50° were common over France and Italy, while on the Riviera and in the Spanish Peninsula the thermometer reached 60°, and at Sfax 66°. Over the central countries of the Continent the maxima were below 50° very generally; below 45° in some localities. Frost continued throughout in the extreme north and north-east of Europe.



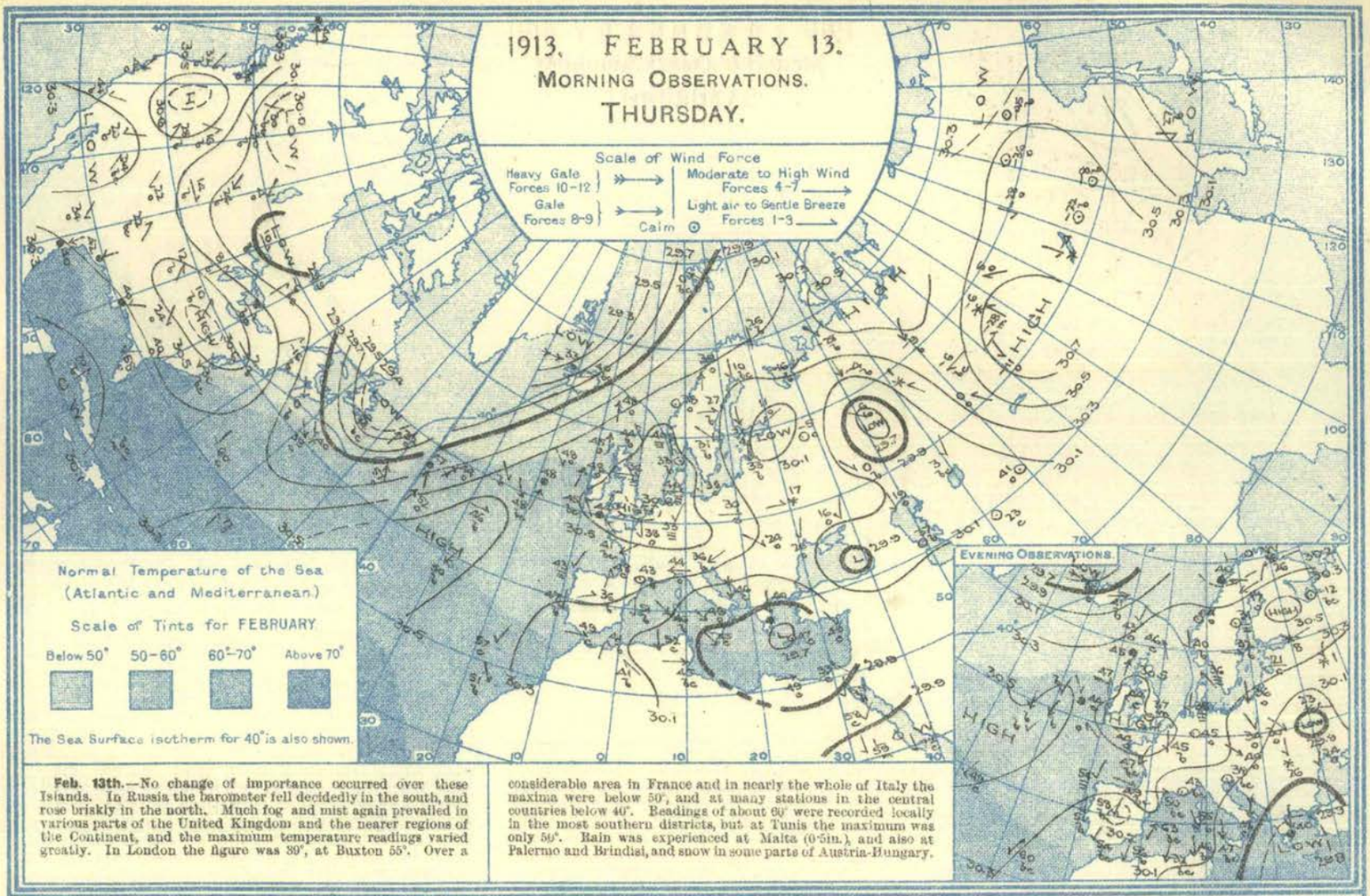
Feb. 10th.—A depression over Central Russia moved northward during day, and the anticyclone centred over South Germany extended considerably in a northerly direction. Temperature rose to 57° at Bath, and to above 50° over the greater part of England and Ireland. Readings as high as 55° were common in France, and on some shores of the Mediterranean the thermometer rose above 60°. In the central countries of the Continent the maxima were about 45°, and nearly all the minima above 32°. Rain was experienced in the north and west of the United Kingdom, but generally in slight quantities, and except in Norway and some parts of the Netherlands and Germany there was little or no rain on the Continent. A moderate amount of rain was recorded along the coast of Algeria.



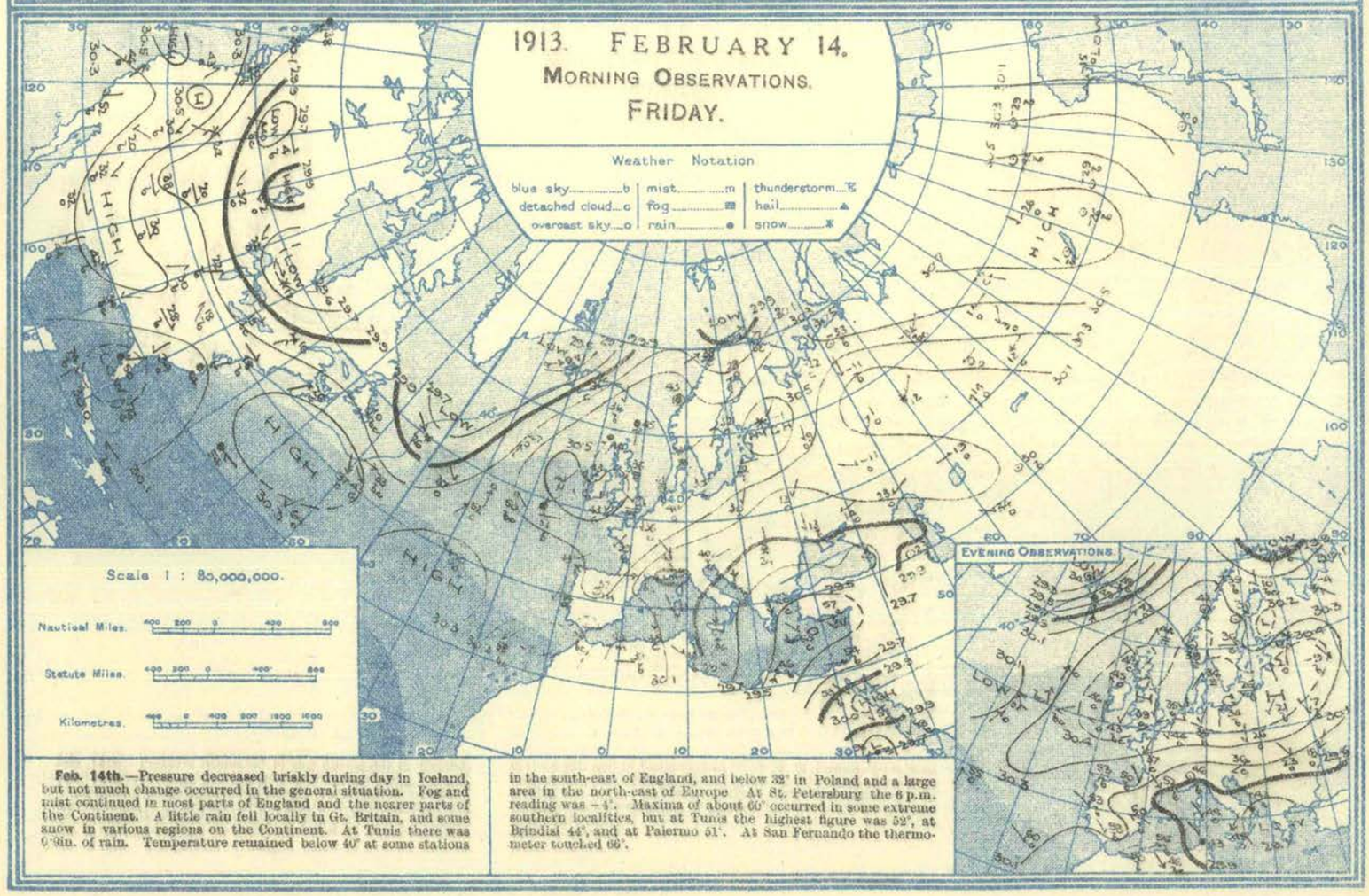
Feb. 11th.—Little change occurred in the general situation over our Islands and their vicinity during day. Fog and mist continued very prevalent locally over England, but some parts of the country experienced much bright sunshine. Temperature rose to 60° at Jersey and to 55° in some parts of Great Britain and Ireland, but only touched 46° at Weymouth and Bournemouth. Readings of 60° or a little higher were recorded in various parts of France and Spain, as well as on the coast of Algeria. Over a large area in Central Europe the thermometer failed to rise to 45°. Frost continued in Russia and the north of Scandinavia. Rain was experienced in the north and north-west of Scotland, and some rain or snow in Norway, Austria-Hungary, and Russia.



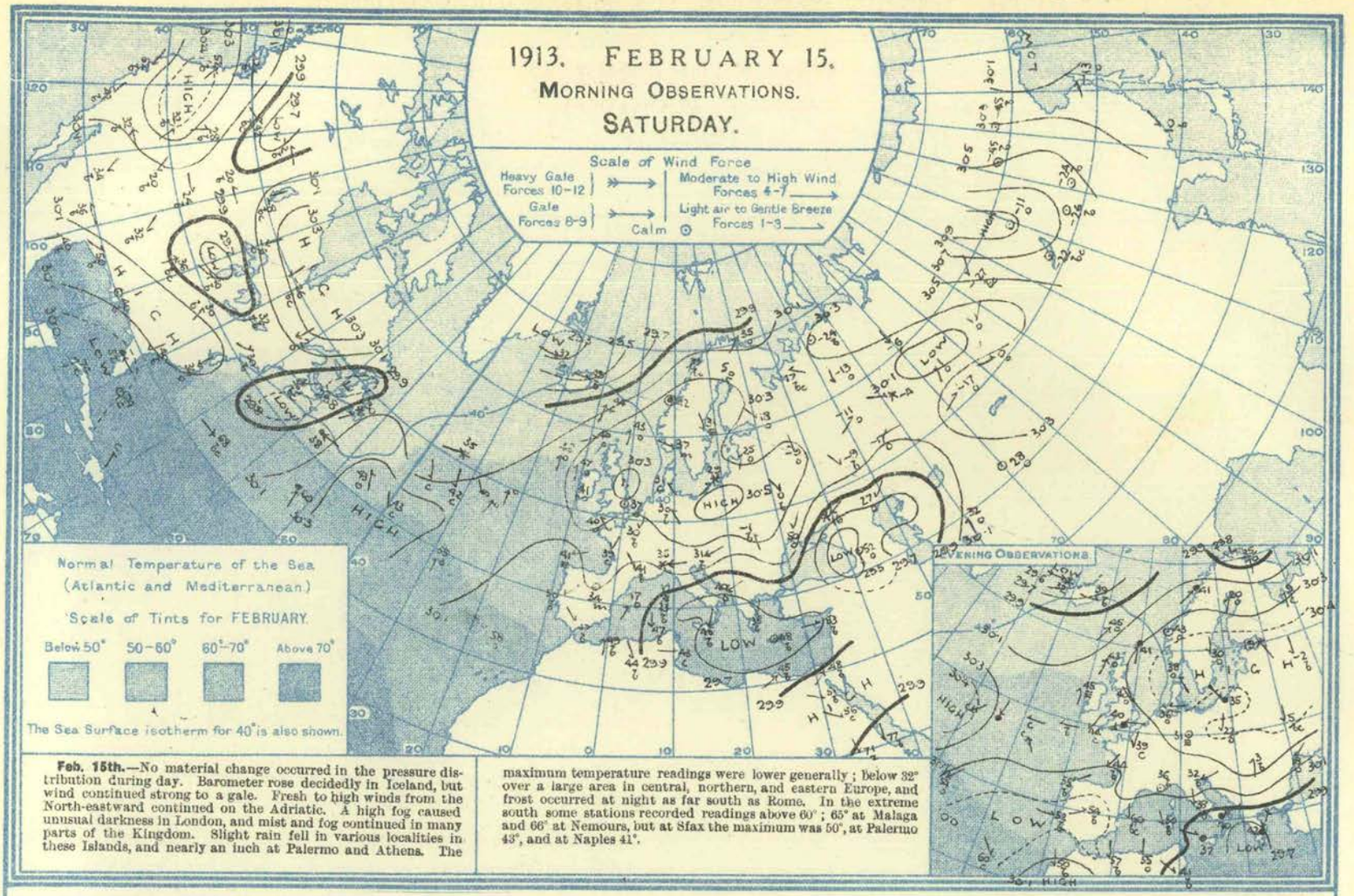
Feb. 12th.—Little change occurred within the anticyclonic system, but a very brisk fall of the barometer took place in Iceland and a decided rise in the Azores region. Fog or mist continued throughout in many parts of England and the Continent, but in the south-west of England and in Wales there was much sunshine. Temperature varied much in the United Kingdom; at Buxton it rose to 57°, and at Sheepstor it reached 61°, but at Nottingham it only touched 38°. In the far south of our area several places recorded readings of about 60°, but over a large portion of central Europe the maxima were below 40°, and in the extreme north and north-east below 32°. At Archangel the 6 p.m. temperature was −16°, and at Kharkoff 2°.



Feb. 13th.—No change of importance occurred over these Islands. In Russia the barometer fell decidedly in the south, and rose briskly in the north. Much fog and mist again prevailed in various parts of the United Kingdom and the nearer regions of the Continent, and the maximum temperature readings varied greatly. In London the figure was 39°, at Buxton 55°. Over a considerable area in France and in nearly the whole of Italy the maxima were below 50°, and at many stations in the central countries below 40°. Readings of about 60° were recorded locally in the most southern districts, but at Tunis the maximum was only 50°. Rain was experienced at Malta (0·5in.), and also at Palermo and Brindisi, and snow in some parts of Austria-Hungary.

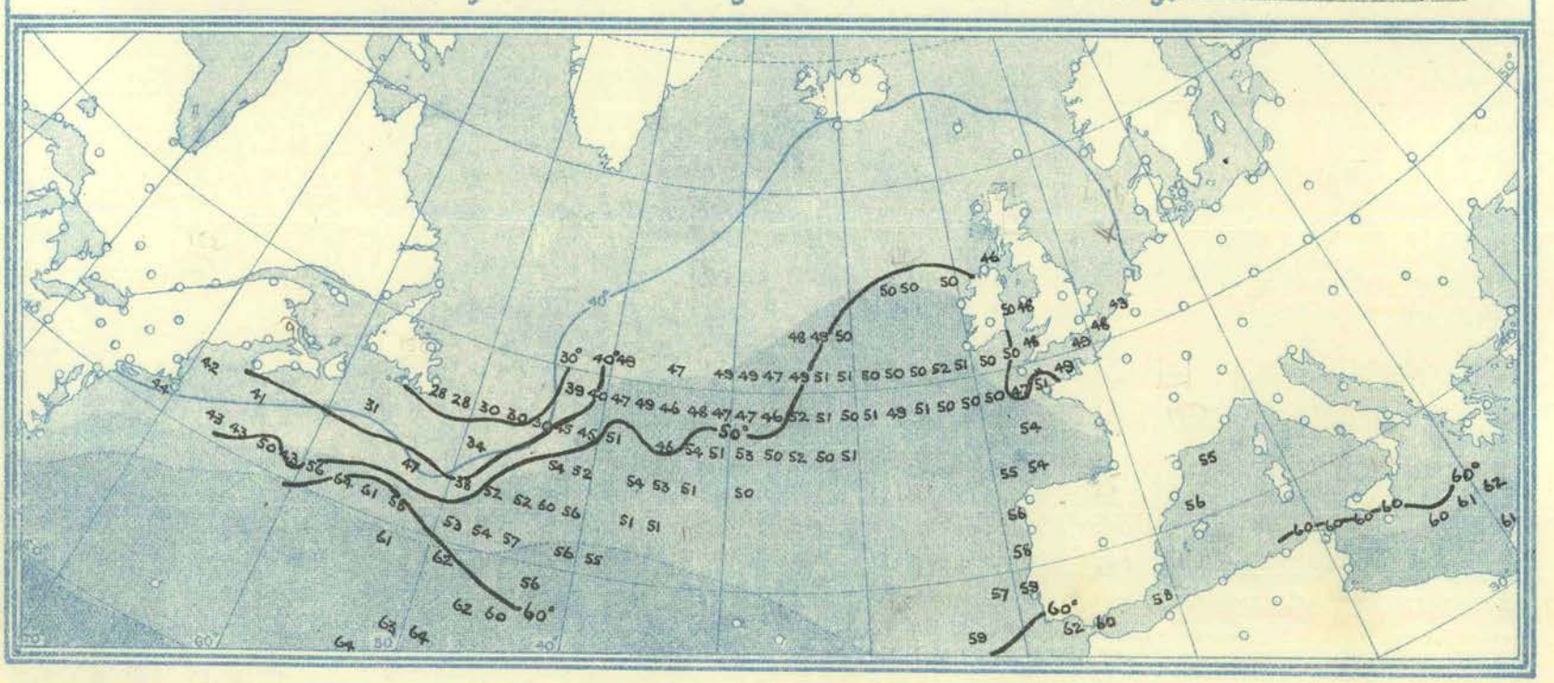


Feb. 14th.—Pressure decreased briskly during day in Iceland, but not much change occurred in the general situation. Fog and mist continued in most parts of England and the nearer parts of the Continent. A little rain fell locally in Gt. Britain, and some snow in various regions on the Continent. At Tunis there was 0·9in. of rain. Temperature remained below 40° at some stations in the south-east of England, and below 32° in Poland and a large area in the north-east of Europe. At St. Petersburg the 6 p.m. reading was −4°. Maxima of about 60° occurred in some extreme southern localities, but at Tunis the highest figure was 52°, at Brindisi 44°, and at Palermo 51°. At San Fernando the thermometer touched 66°.



Feb. 15th.—No material change occurred in the pressure distribution during day. Barometer rose decidedly in Iceland, but wind continued strong to a gale. Fresh to high winds from the North-eastward continued on the Adriatic. A high fog caused unusual darkness in London, and mist and fog continued in many parts of the Kingdom. Slight rain fell in various localities in these Islands, and nearly an inch at Palermo and Athens. The maximum temperature readings were lower generally; Below 32° over a large area in central, northern, and eastern Europe, and frost occurred at night as far south as Rome. In the extreme south some stations recorded readings above 60°; 65° at Malaga and 66° at Nemours, but at Sfax the maximum was 50°, at Palermo 43°, and at Naples 41°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 15TH FEBRUARY, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

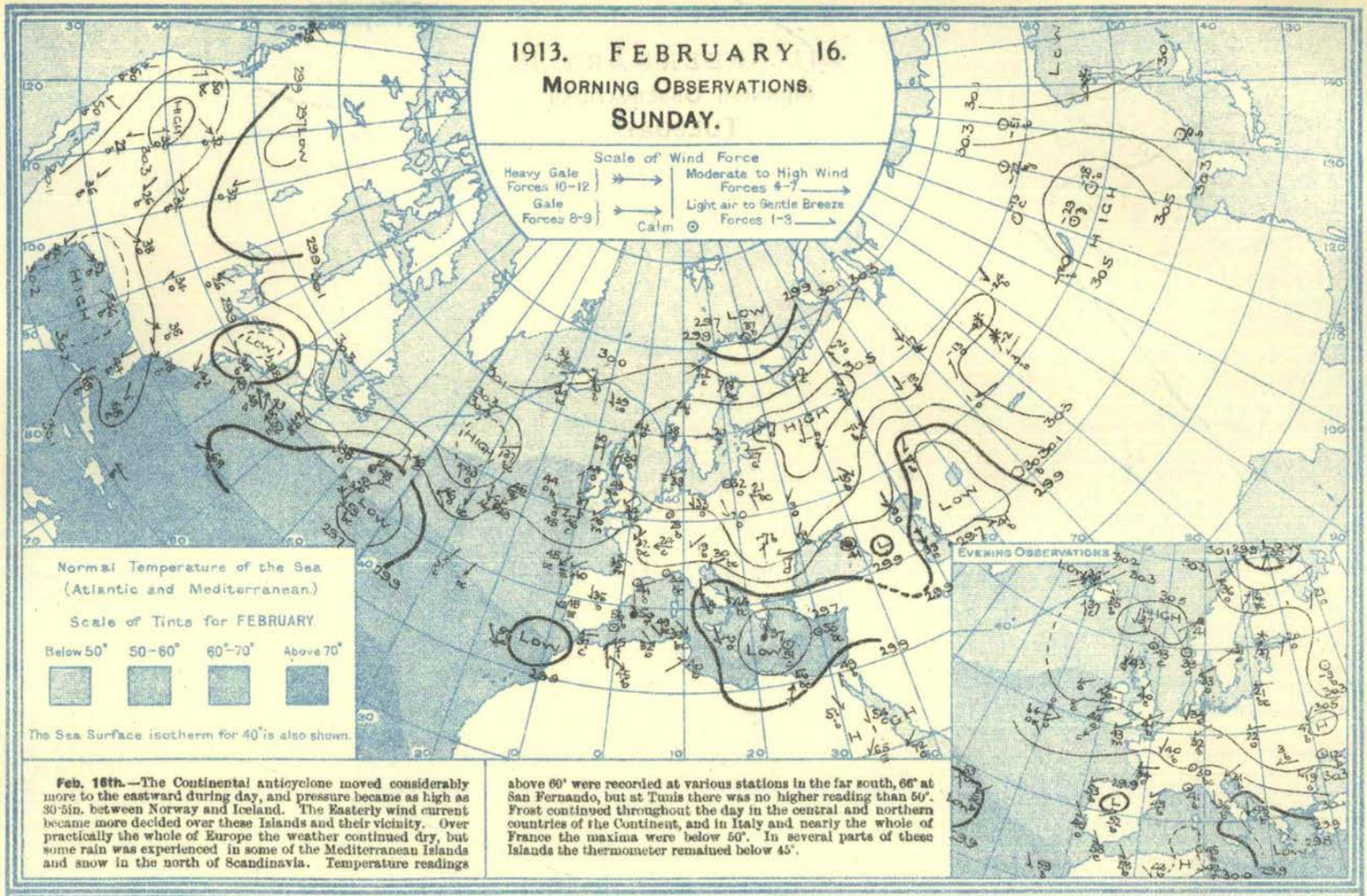
The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy, Austria and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

Observations over the Russian Empire, including Siberia, are taken at 7 a.m. local time.

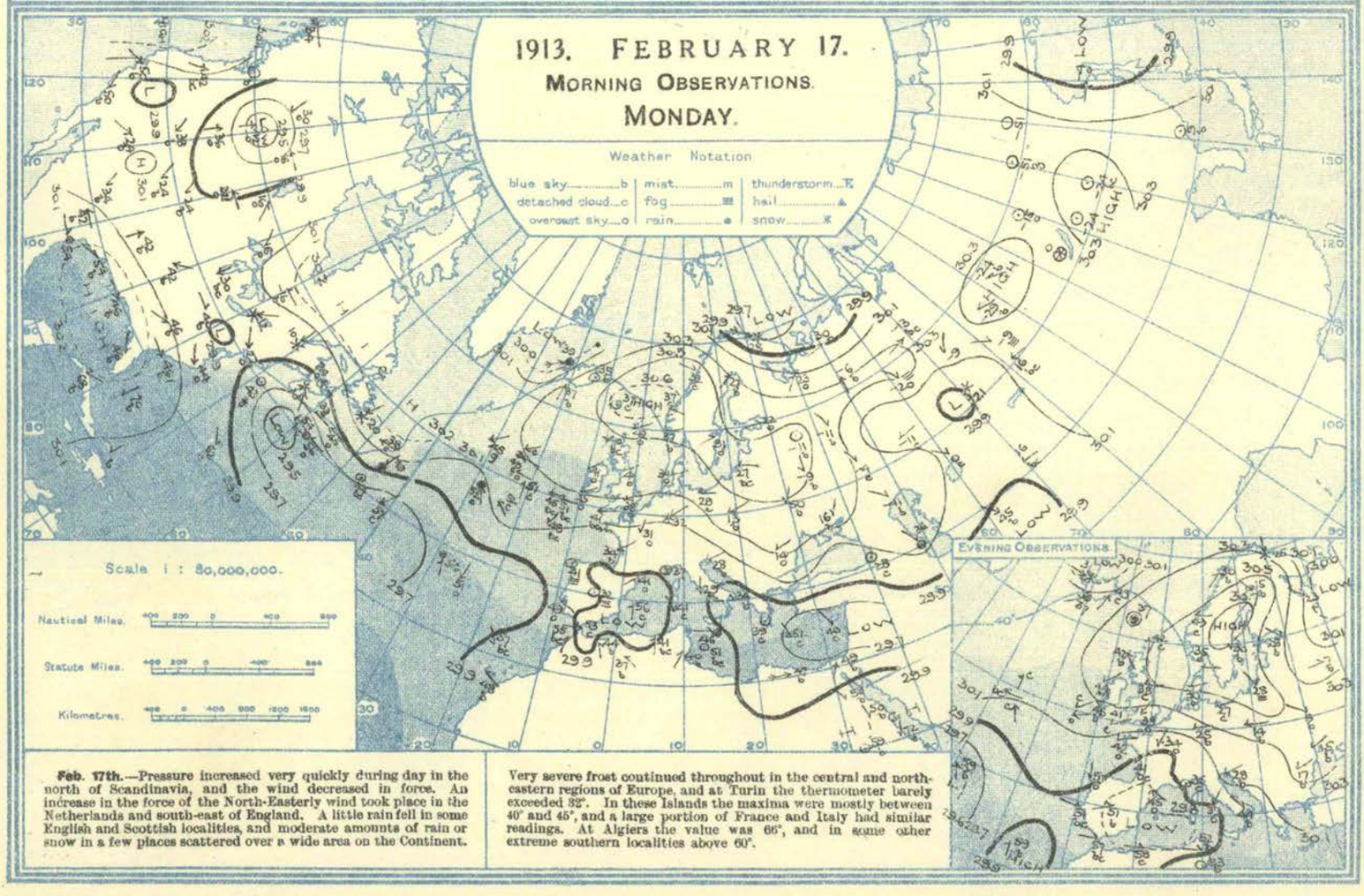
On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

The evening charts are prepared from observations made at 6 p.m. in the British Islands, France, Denmark and Norway; at 4 p.m. in Spain; at 5 p.m. in Iceland; at 6.25 p.m. in Greece; at 7 p.m. in Holland and Germany; at 8 p.m. in Belgium, Sweden, Switzerland, Italy and Austria; and at 9.37 p.m. in Portugal and 9 p.m. in the Azores. Over the Russian Empire (including Siberia) they are taken at 9 p.m. local time.

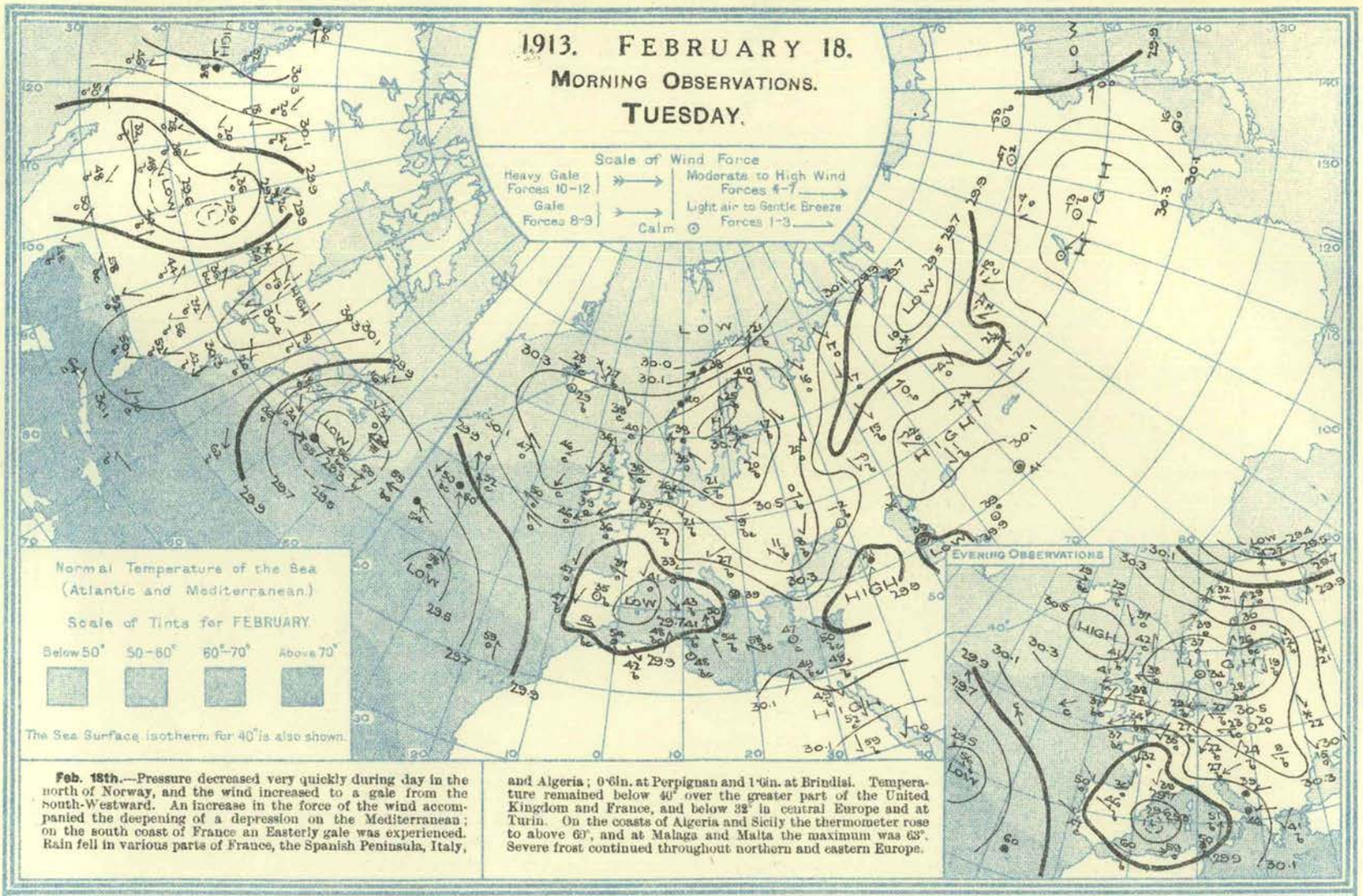
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40° and 80° are shown by blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



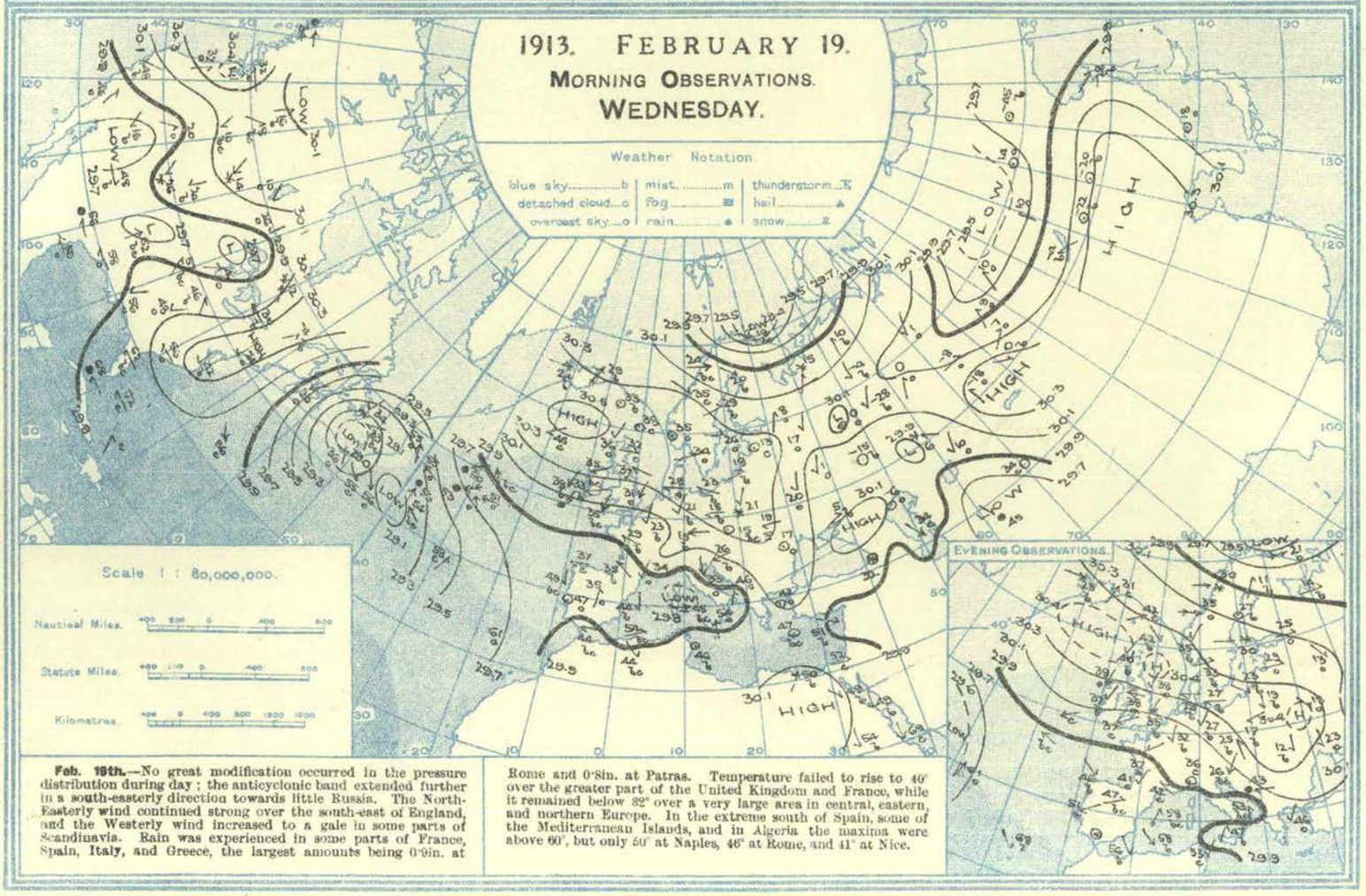
Feb. 16th.—The Continental anticyclone moved considerably more to the eastward during day, and pressure became as high as 30·5in. between Norway and Iceland. The Easterly wind current became more decided over these Islands and their vicinity. Over practically the whole of Europe the weather continued dry, but some rain was experienced in some of the Mediterranean Islands and snow in the north of Scandinavia. Temperature readings above 60° were recorded at various stations in the far south, 66° at San Fernando, but at Tunis there was no higher reading than 59°. Frost continued throughout the day in the central and northern countries of the Continent, and in Italy and nearly the whole of France the maxima were below 50°. In several parts of these Islands the thermometer remained below 45°.



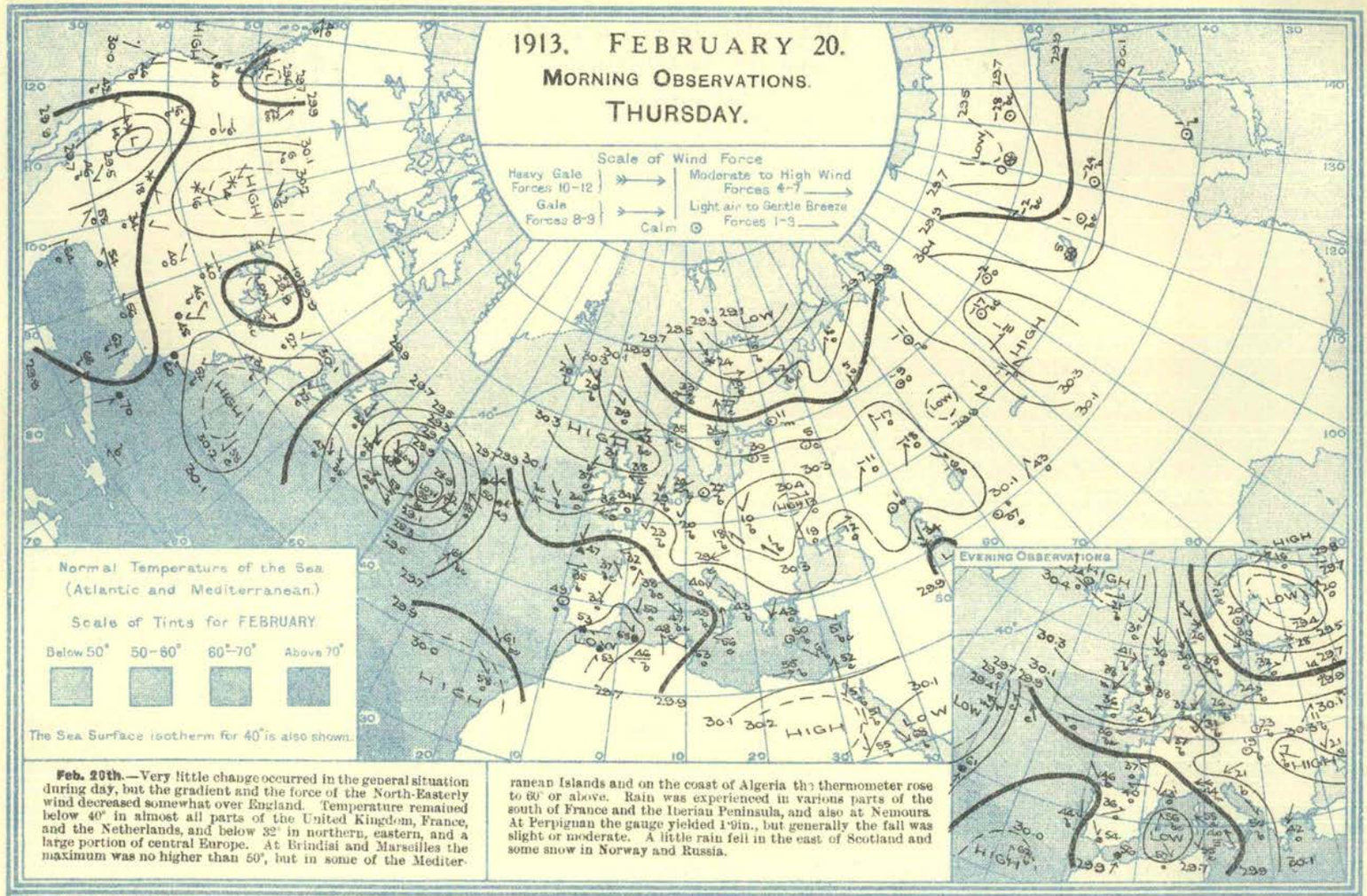
Feb. 17th.—Pressure increased very quickly during day in the north of Scandinavia, and the wind decreased in force. An increase in the force of the North-Easterly wind took place in the Netherlands and south-east of England. A little rain fell in some English and Scottish localities, and moderate amounts of rain or snow in a few places scattered over a wide area on the Continent. Very severe frost continued throughout in the central and north-eastern regions of Europe, and at Turin the thermometer barely exceeded 32°. In these Islands the maxima were mostly between 40° and 45°, and a large portion of France and Italy had similar readings. At Algiers the value was 66°, and in some other extreme southern localities above 60°.



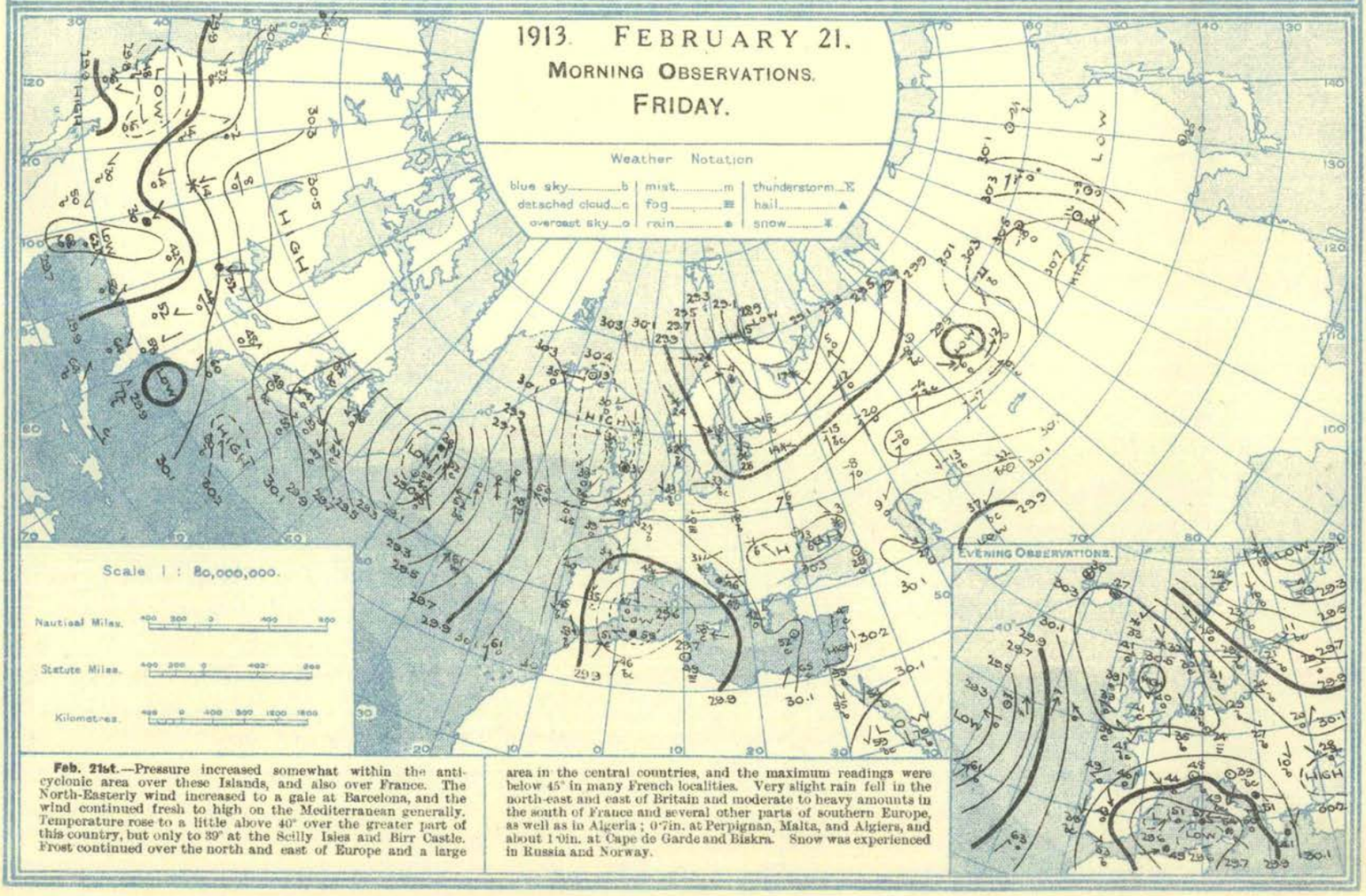
Feb. 18th.—Pressure decreased very quickly during day in the north of Norway, and the wind increased to a gale from the South-Westward. An increase in the force of the wind accompanied the deepening of a depression on the Mediterranean; on the south coast of France an Easterly gale was experienced. Rain fell in various parts of France, the Spanish Peninsula, Italy, and Algeria; 0·6in. at Perpignan and 1·0in. at Brindisi. Temperature remained below 40° over the greater part of the United Kingdom and France, and below 32° in central Europe and at Turin. On the coasts of Algeria and Sicily the thermometer rose to above 60°, and at Malaga and Malta the maximum was 63°. Severe frost continued throughout northern and eastern Europe.



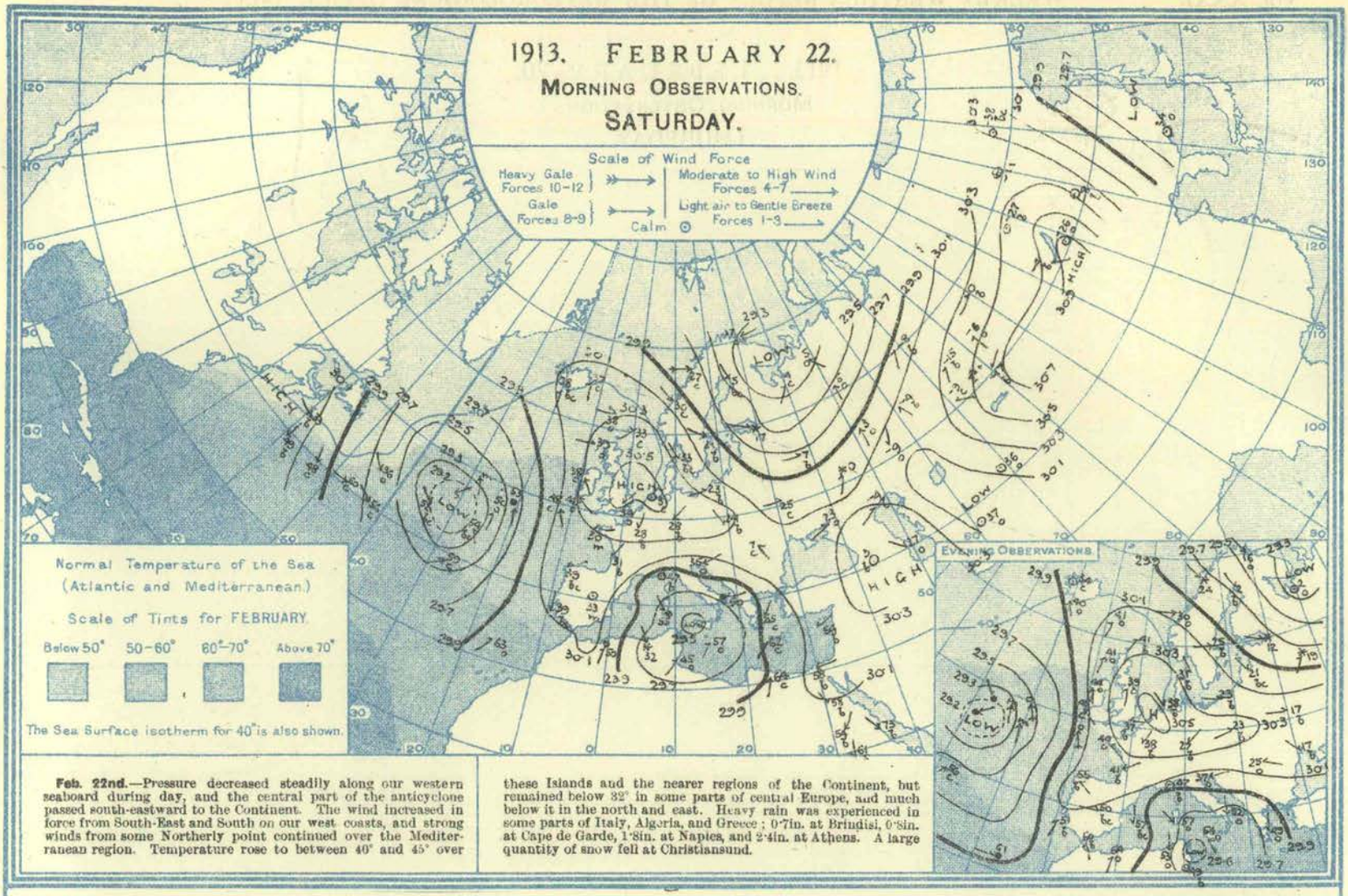
Feb. 19th.—No great modification occurred in the pressure distribution during day; the anticyclonic band extended further in a south-easterly direction towards little Russia. The North-Easterly wind continued strong over the south-east of England, and the Westerly wind increased to a gale in some parts of Scandinavia. Rain was experienced in some parts of France, Spain, Italy, and Greece, the largest amounts being 0·9in. at Rome and 0·8in. at Patras. Temperature failed to rise to 40° over the greater part of the United Kingdom and France, while it remained below 32° over a very large area in central, eastern, and northern Europe. In the extreme south of Spain, some of the Mediterranean Islands, and in Algeria the maxima were above 60°, but only 50° at Naples, 46° at Rome, and 41° at Nice.



Feb. 20th.—Very little change occurred in the general situation during day, but the gradient and the force of the North-Easterly wind decreased somewhat over England. Temperature remained below 40° in almost all parts of the United Kingdom, France, and the Netherlands, and below 32° in northern, eastern, and a large portion of central Europe. At Brindisi and Marseilles the maximum was no higher than 50°, but in some of the Mediterranean Islands and on the coast of Algeria the thermometer rose to 60° or above. Rain was experienced in various parts of the south of France and the Iberian Peninsula, and also at Nemours. At Perpignan the gauge yielded 1·9in., but generally the fall was slight or moderate. A little rain fell in the east of Scotland and some snow in Norway and Russia.

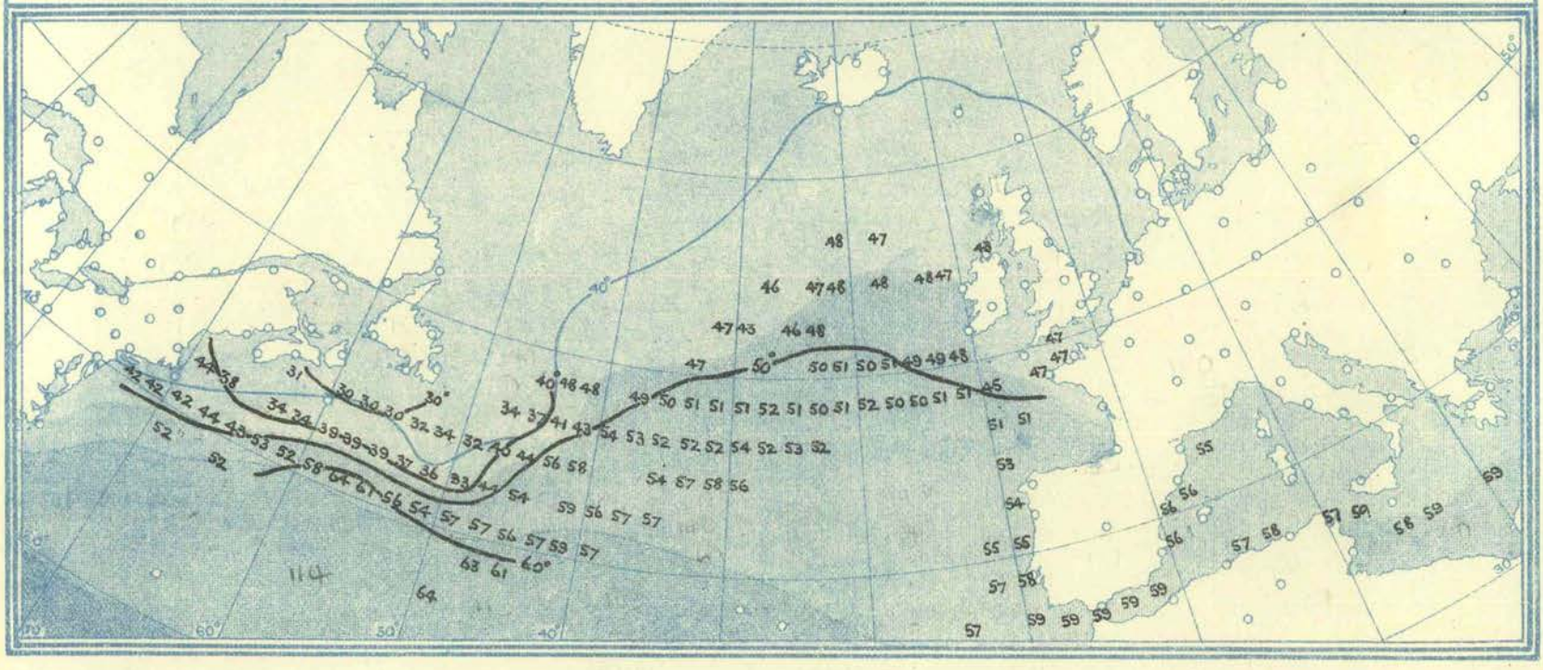


Feb. 21st.—Pressure increased somewhat within the anticyclonic area over these Islands, and also over France. The North-Easterly wind increased to a gale at Barcelona, and the wind continued fresh to high on the Mediterranean generally. Temperature rose to a little above 40° over the greater part of this country, but only to 39° at the Scilly Isles and Birr Castle. Frost continued over the north and east of Europe and a large area in the central countries, and the maximum readings were below 45° in many French localities. Very slight rain fell in the north-east and east of Britain and moderate to heavy amounts in the south of France and several other parts of southern Europe, as well as in Algeria; 0·7in. at Perpignan, Malta, and Algiers, and about 1·0in. at Cape de Garde and Biskra. Snow was experienced in Russia and Norway.



Feb. 22nd.—Pressure decreased steadily along our western seaboard during day, and the central part of the anticyclone passed south-eastward to the Continent. The wind increased in force from South-East and South on our west coasts, and strong winds from some Northerly point continued over the Mediterranean region. Temperature rose to between 40° and 45° over these Islands and the nearer regions of the Continent, but remained below 32° in some parts of central Europe, and much below it in the north and east. Heavy rain was experienced in some parts of Italy, Algeria, and Greece; 0·7in. at Brindisi, 0·8in. at Cape de Garde, 1·8in. at Naples, and 2·4in. at Athens. A large quantity of snow fell at Christiansund.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 22ND FEBRUARY, 1913.



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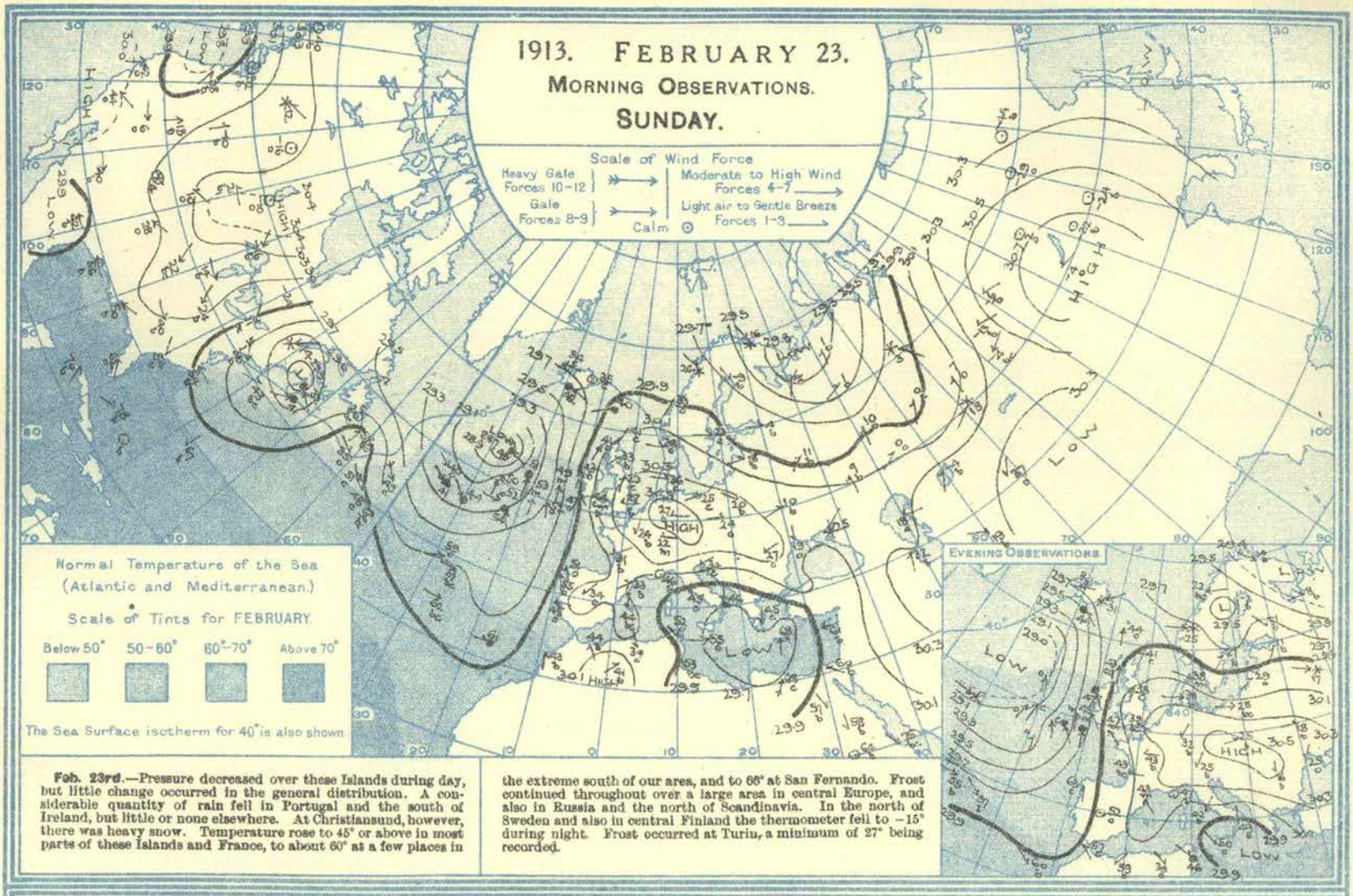
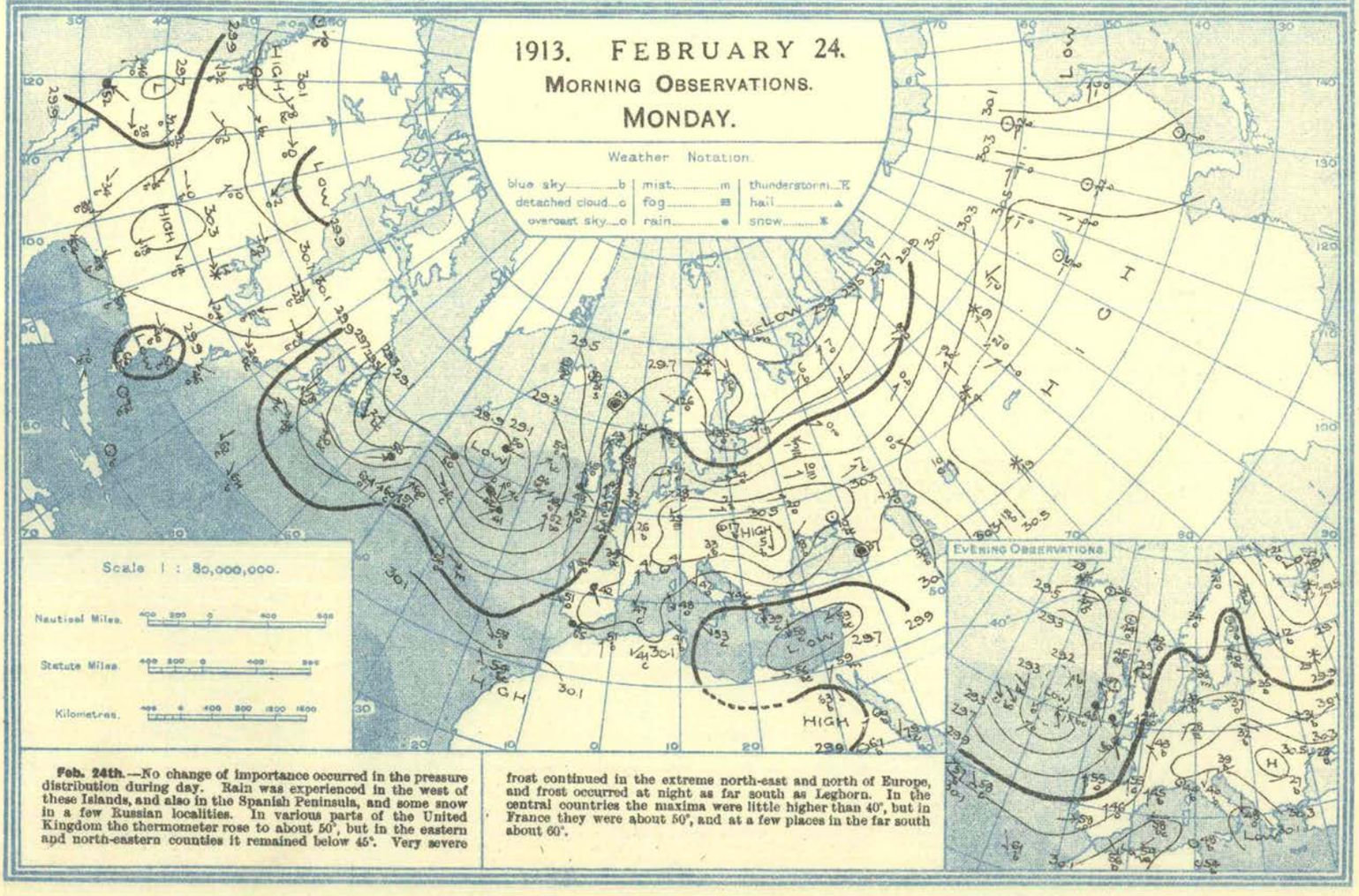
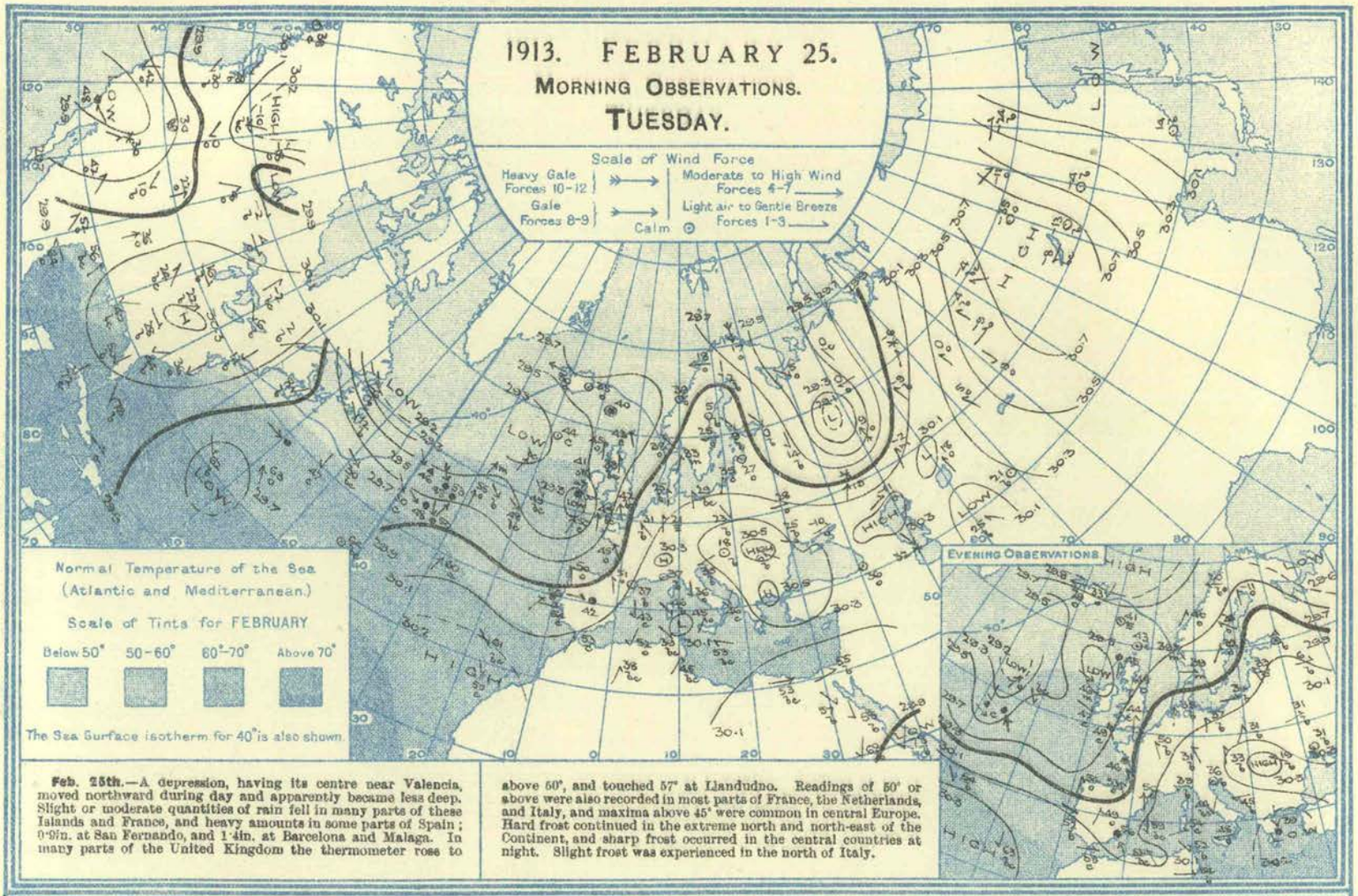


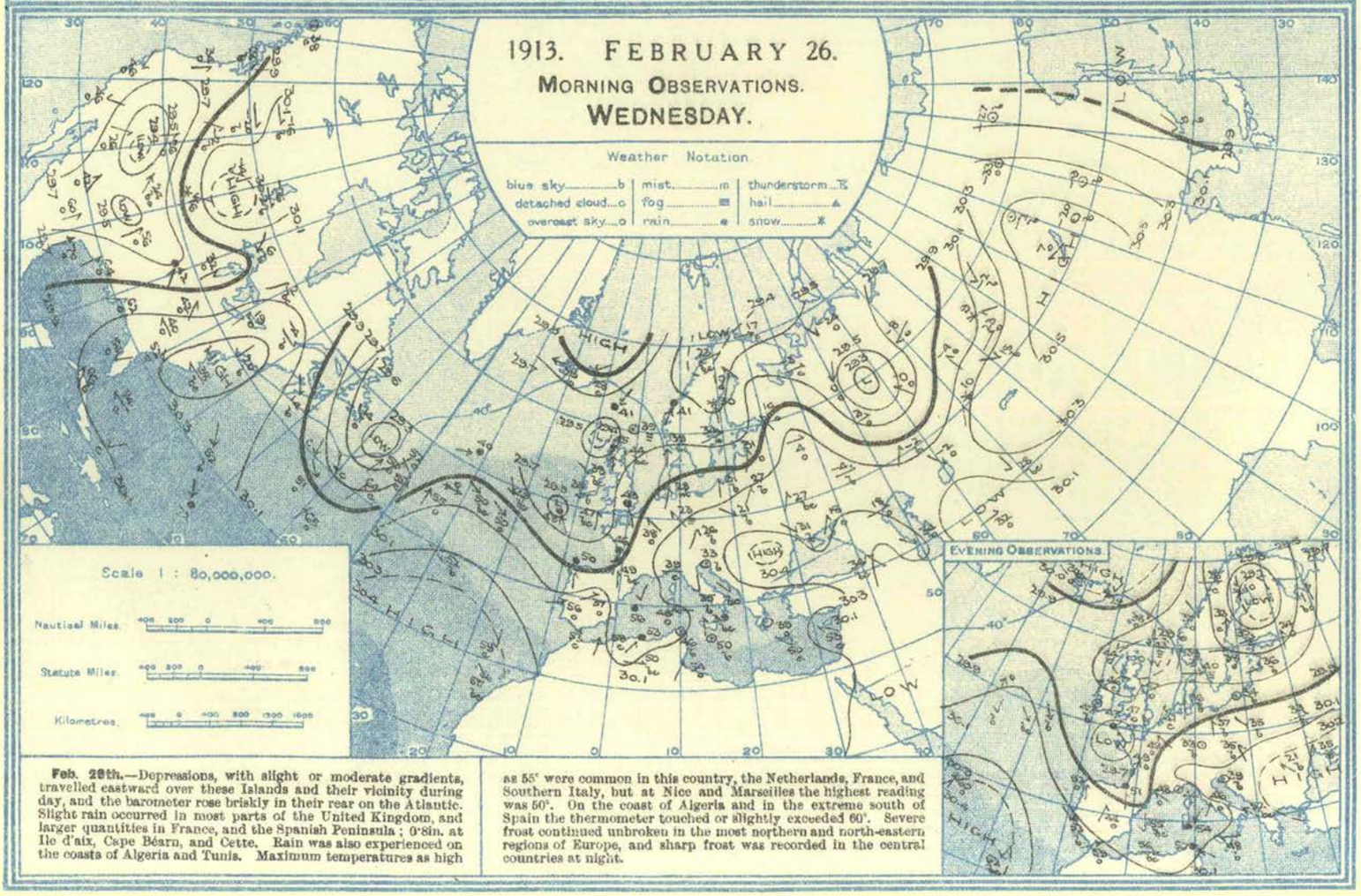
Feb. 23rd.—Pressure decreased over these Islands during day, but little change occurred in the general distribution. A considerable quantity of rain fell in Portugal and the south of Ireland, but little or none elsewhere. At Christiansund, however, there was heavy snow. Temperature rose to 45° or above in most parts of these Islands and France, to about 60° at a few places in the extreme south of our area, and to 66° at San Fernando. Frost continued throughout over a large area in central Europe, and also in Russia and the north of Scandinavia. In the north of Sweden and also in central Finland the thermometer fell to −15° during night. Frost occurred at Turin, a minimum of 27° being recorded.



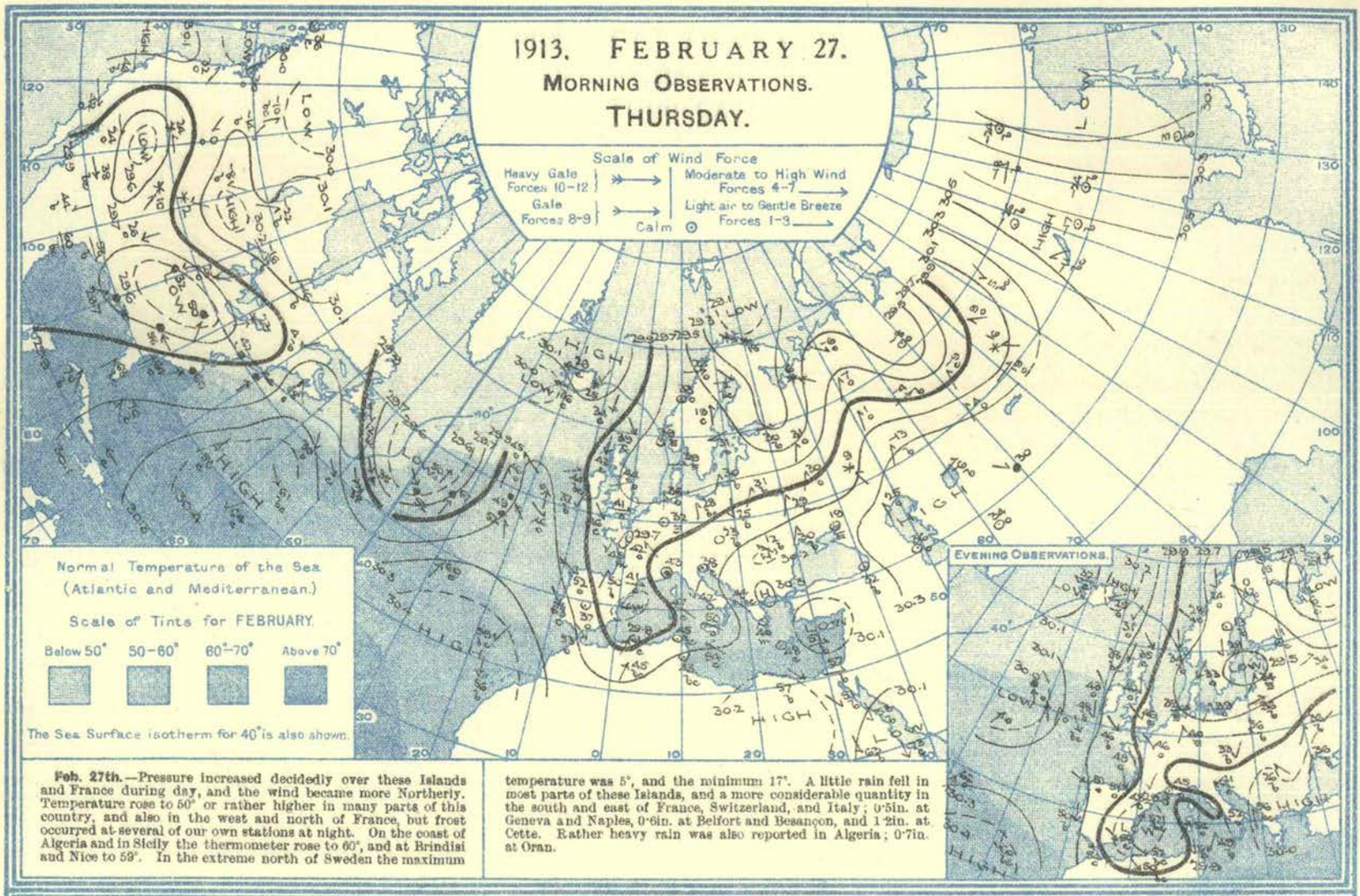
Feb. 24th.—No change of importance occurred in the pressure distribution during day. Rain was experienced in the west of these Islands, and also in the Spanish Peninsula, and some snow in a few Russian localities. In various parts of the United Kingdom the thermometer rose to about 50°, but in the eastern and north-eastern counties it remained below 45°. Very severe frost continued in the extreme north-east and north of Europe, and frost occurred at night as far south as Leghorn. In the central countries the maxima were little higher than 40°, but in France they were about 50°, and at a few places in the far south about 60°.



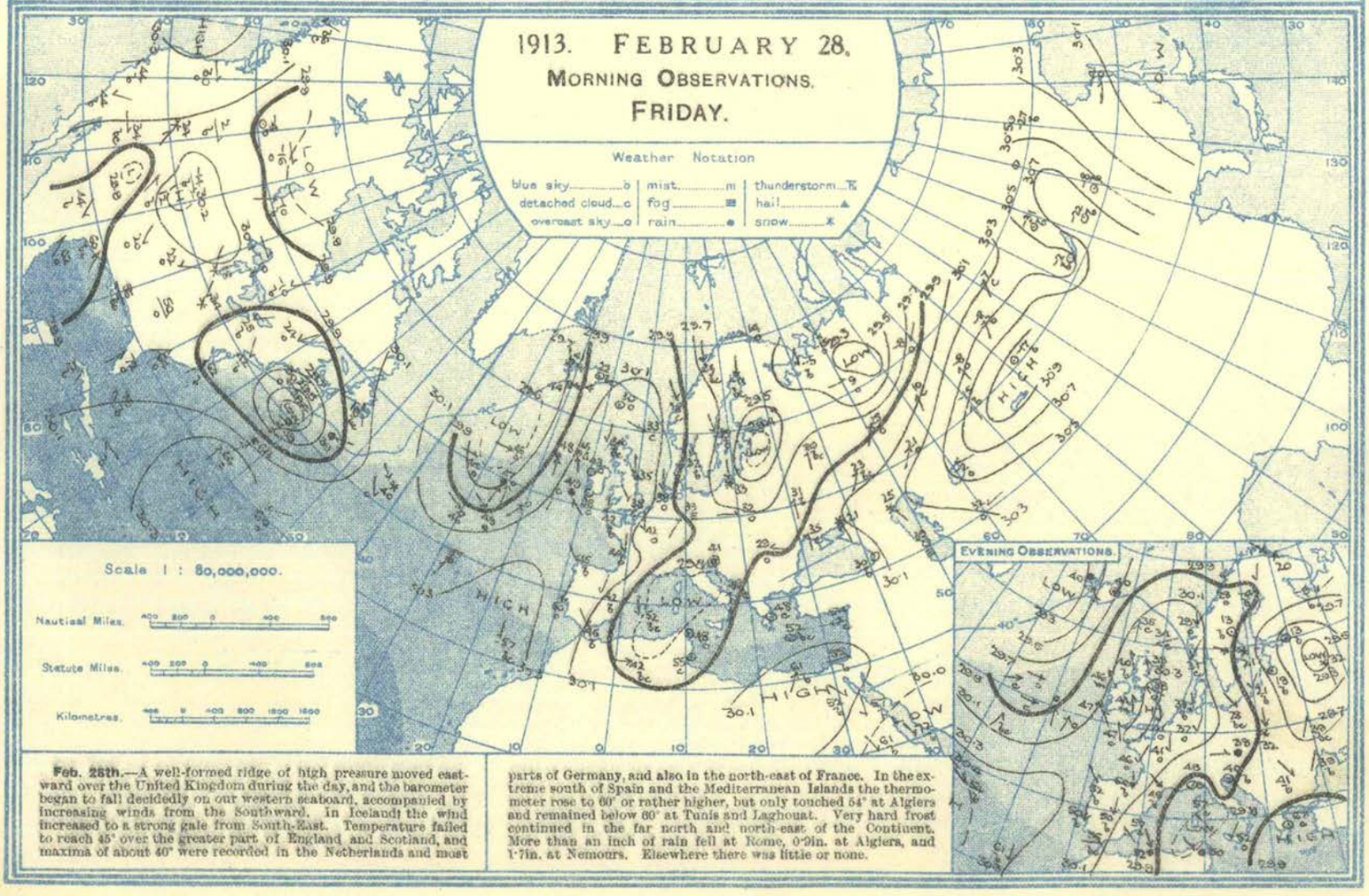
Feb. 25th.—A depression, having its centre near Valencia, moved northward during day and apparently became less deep. Slight or moderate quantities of rain fell in many parts of these Islands and France, and heavy amounts in some parts of Spain; 0·9in. at San Fernando, and 1·4in. at Barcelona and Malaga. In many parts of the United Kingdom the thermometer rose to above 50°, and touched 57° at Llandudno. Readings of 50° or above were also recorded in most parts of France, the Netherlands, and Italy, and maxima above 45° were common in central Europe. Hard frost continued in the extreme north and north-east of the Continent, and sharp frost occurred in the central countries at night. Slight frost was experienced in the north of Italy.



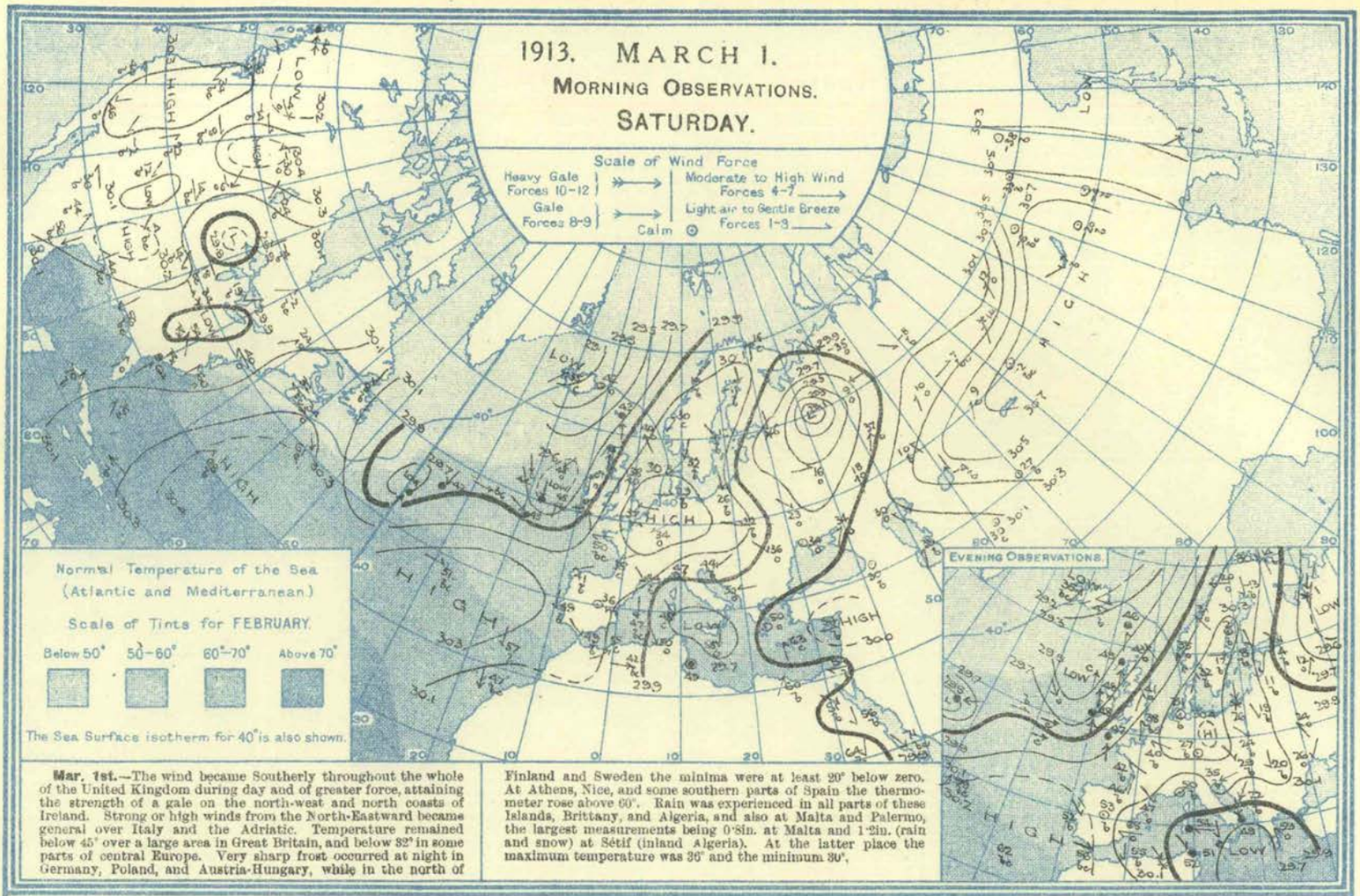
Feb. 26th.—Depressions, with slight or moderate gradients, travelled eastward over these Islands and their vicinity during day, and the barometer rose briskly in their rear on the Atlantic. Slight rain occurred in most parts of the United Kingdom, and larger quantities in France, and the Spanish Peninsula; 0·8in. at Ile d'aix, Cape Béarn, and Cette. Rain was also experienced on the coasts of Algeria and Tunis. Maximum temperatures as high as 55° were common in this country, the Netherlands, France, and Southern Italy, but at Nice and Marseilles the highest reading was 50°. On the coast of Algeria and in the extreme south of Spain the thermometer touched or slightly exceeded 60°. Severe frost continued unbroken in the most northern and north-eastern regions of Europe, and sharp frost was recorded in the central countries at night.



Feb. 27th.—Pressure increased decidedly over these Islands and France during day, and the wind became more Northerly. Temperature rose to 50° or rather higher in many parts of this country, and also in the west and north of France, but frost occurred at several of our own stations at night. On the coast of Algeria and in Sicily the thermometer rose to 60°, and at Brindisi and Nice to 59°. In the extreme north of Sweden the maximum temperature was 5°, and the minimum 17°. A little rain fell in most parts of these Islands, and a more considerable quantity in the south and east of France, Switzerland, and Italy; 0·5in. at Geneva and Naples, 0·6in. at Belfort and Besançon, and 1·2in. at Cette. Rather heavy rain was also reported in Algeria; 0·7in. at Oran.

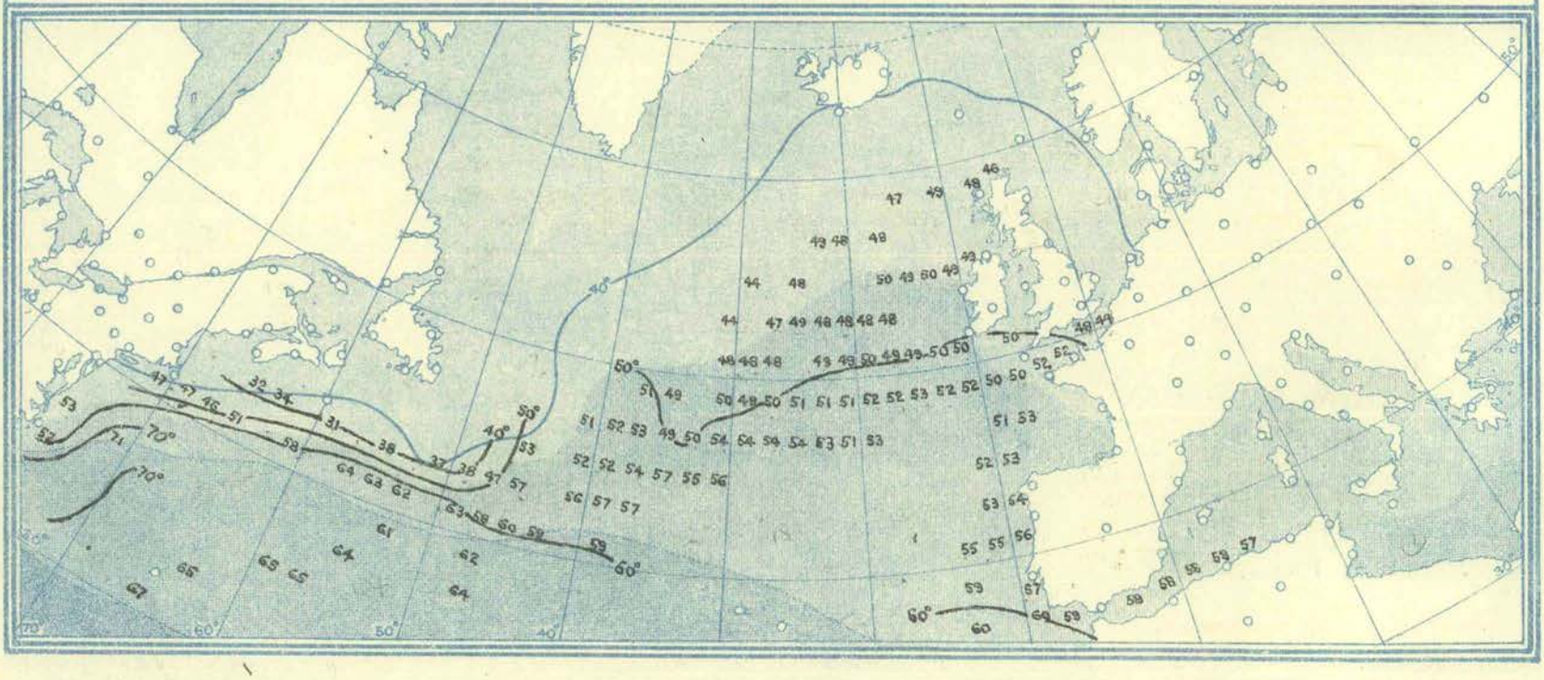


Feb. 28th.—A well-formed ridge of high pressure moved eastward over the United Kingdom during the day, and the barometer began to fall decidedly on our western seaboard, accompanied by increasing winds from the Southward. In Iceland the wind increased to a strong gale from South-East. Temperature failed to reach 45° over the greater part of England and Scotland, and maxima of about 40° were recorded in the Netherlands and most parts of Germany, and also in the north-east of France. In the extreme south of Spain and the Mediterranean Islands the thermometer rose to 60° or rather higher, but only touched 54° at Algiers and remained below 60° at Tunis and Laghouat. Very hard frost continued in the far north and north-east of the Continent. More than an inch of rain fell at Rome, 0·9in. at Algiers, and 1·7in. at Nemours. Elsewhere there was little or none.



Mar. 1st.—The wind became Southerly throughout the whole of the United Kingdom during day and of greater force, attaining the strength of a gale on the north-west and north coasts of Ireland. Strong or high winds from the North-Eastward became general over Italy and the Adriatic. Temperature remained below 45° over a large area in Great Britain, and below 32° in some parts of central Europe. Very sharp frost occurred at night in Germany, Poland, and Austria-Hungary, while in the north of Finland and Sweden the minima were at least 20° below zero. At Athens, Nice, and some southern parts of Spain the thermometer rose above 60°. Rain was experienced in all parts of these Islands, Brittany, and Algeria, and also at Malta and Palermo, the largest measurements being 0·8in. at Malta and 1·2in. (rain and snow) at Sétif (inland Algeria). At the latter place the maximum temperature was 36° and the minimum 30°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 1ST MARCH, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

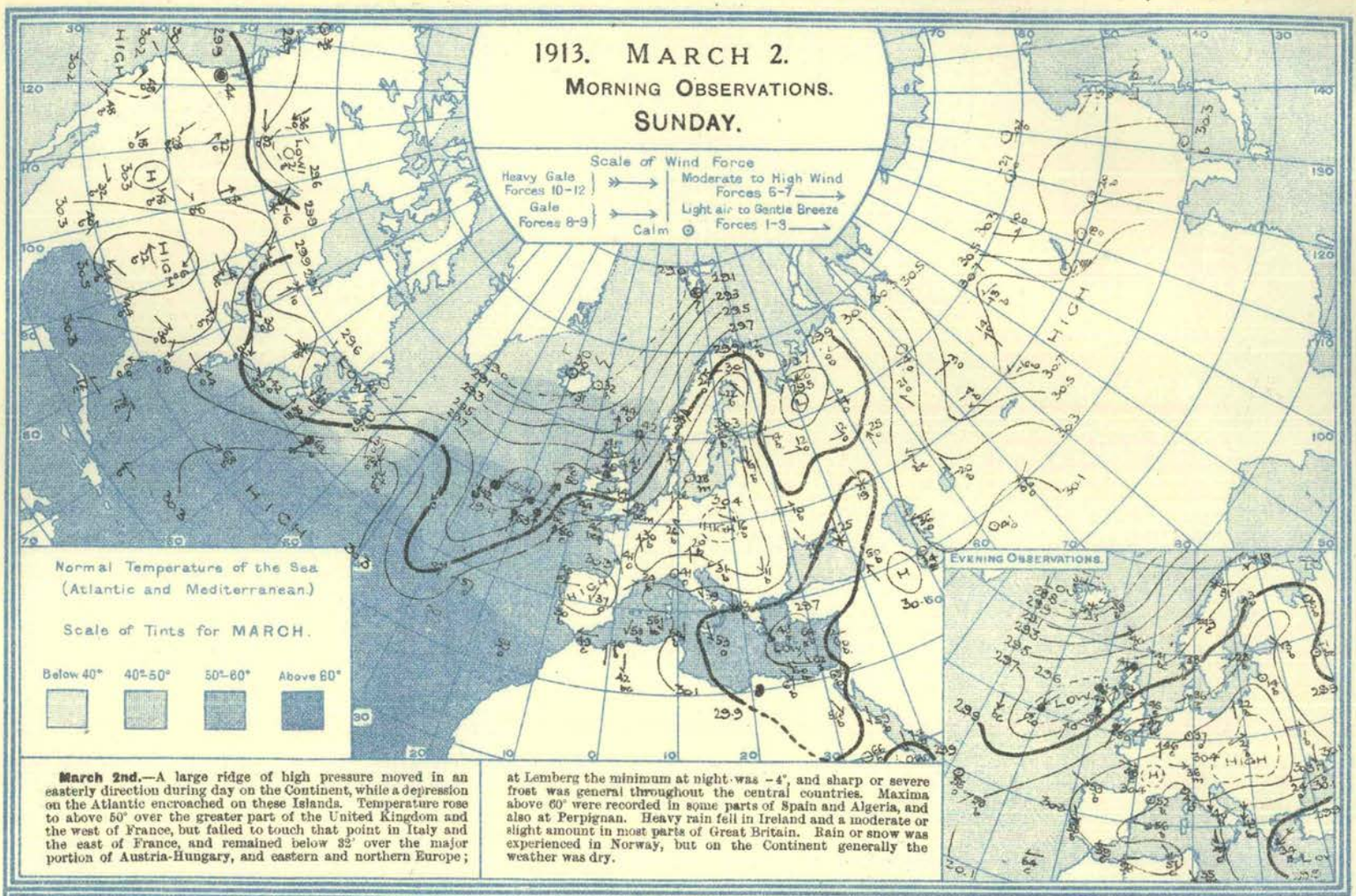
The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy, Austria and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

Observations over the Russian Empire, including Siberia, are taken at 7 a.m. local time.

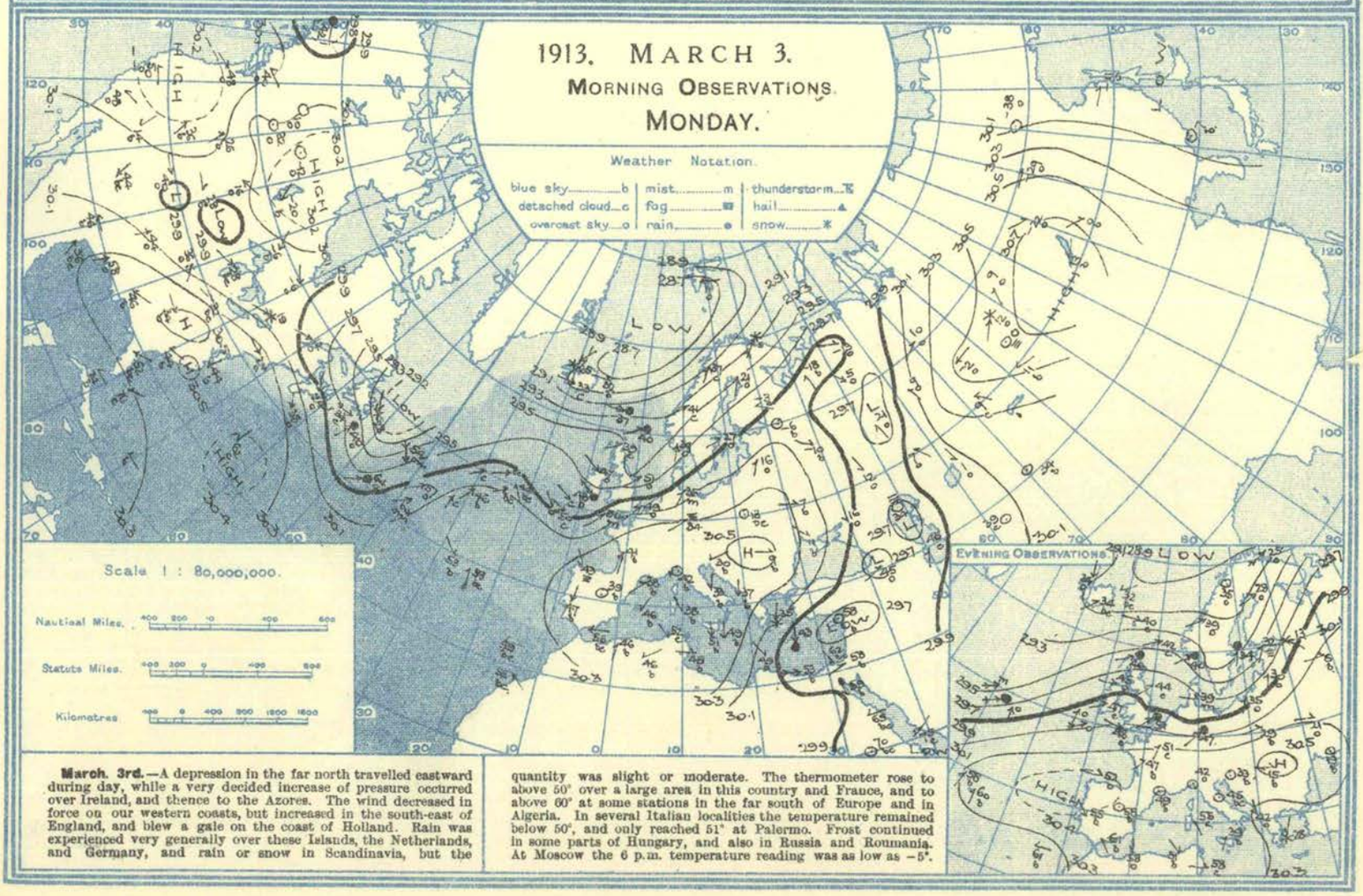
On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

The evening charts are prepared from observations made at 6 p.m. in the British Islands, France, Denmark and Norway; at 4 p.m. in Spain; at 5 p.m. in Iceland; at 6.25 p.m. in Greece; at 7 p.m. in Holland and Germany; at 8 p.m. in Belgium, Sweden, Switzerland, Italy and Austria; and at 9.37 p.m. in Portugal and 9 p.m. in the Azores. Over the Russian Empire (including Siberia) they are taken at 9 p.m. local time.

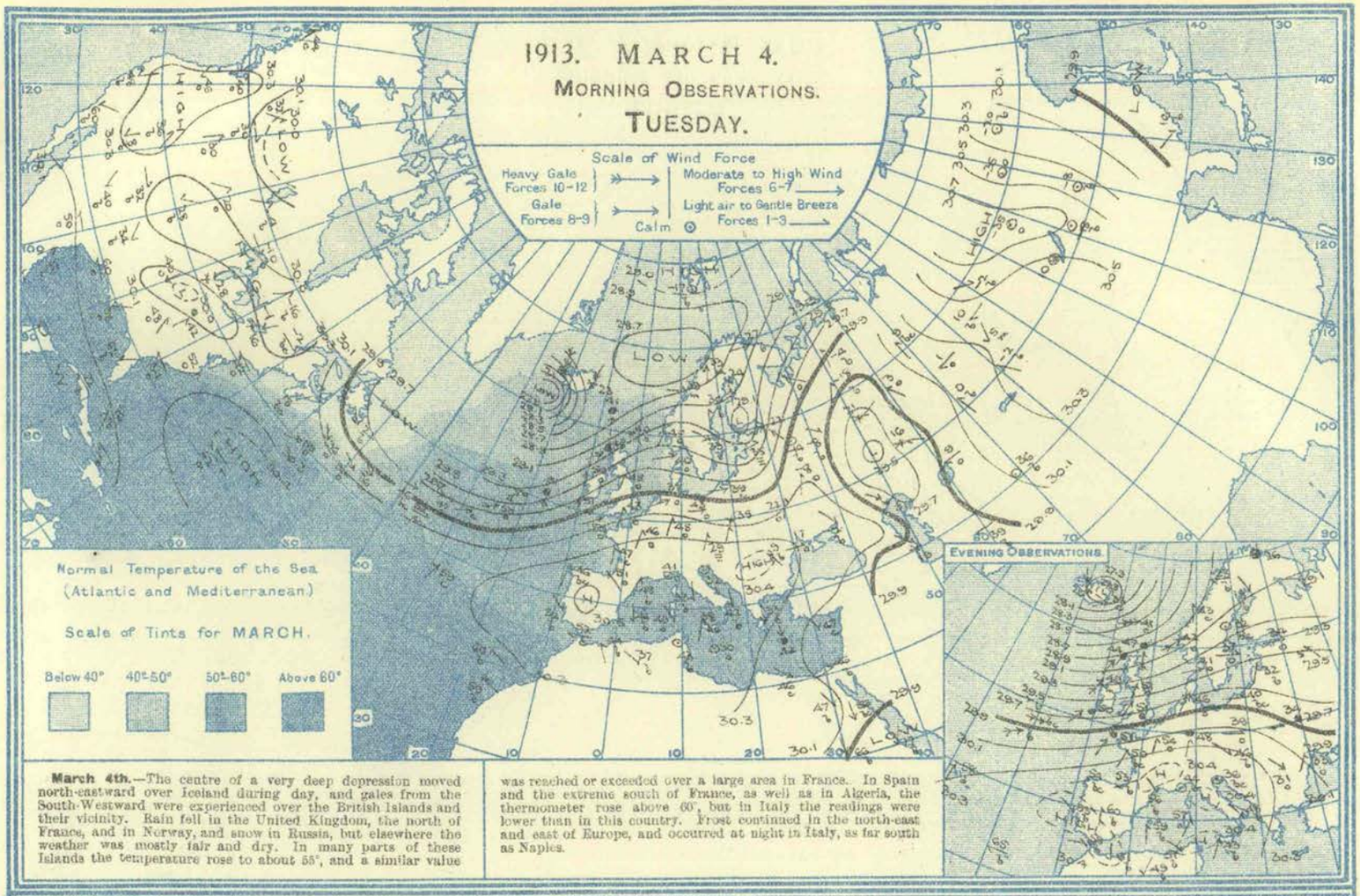
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40° and 80° are shown by blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



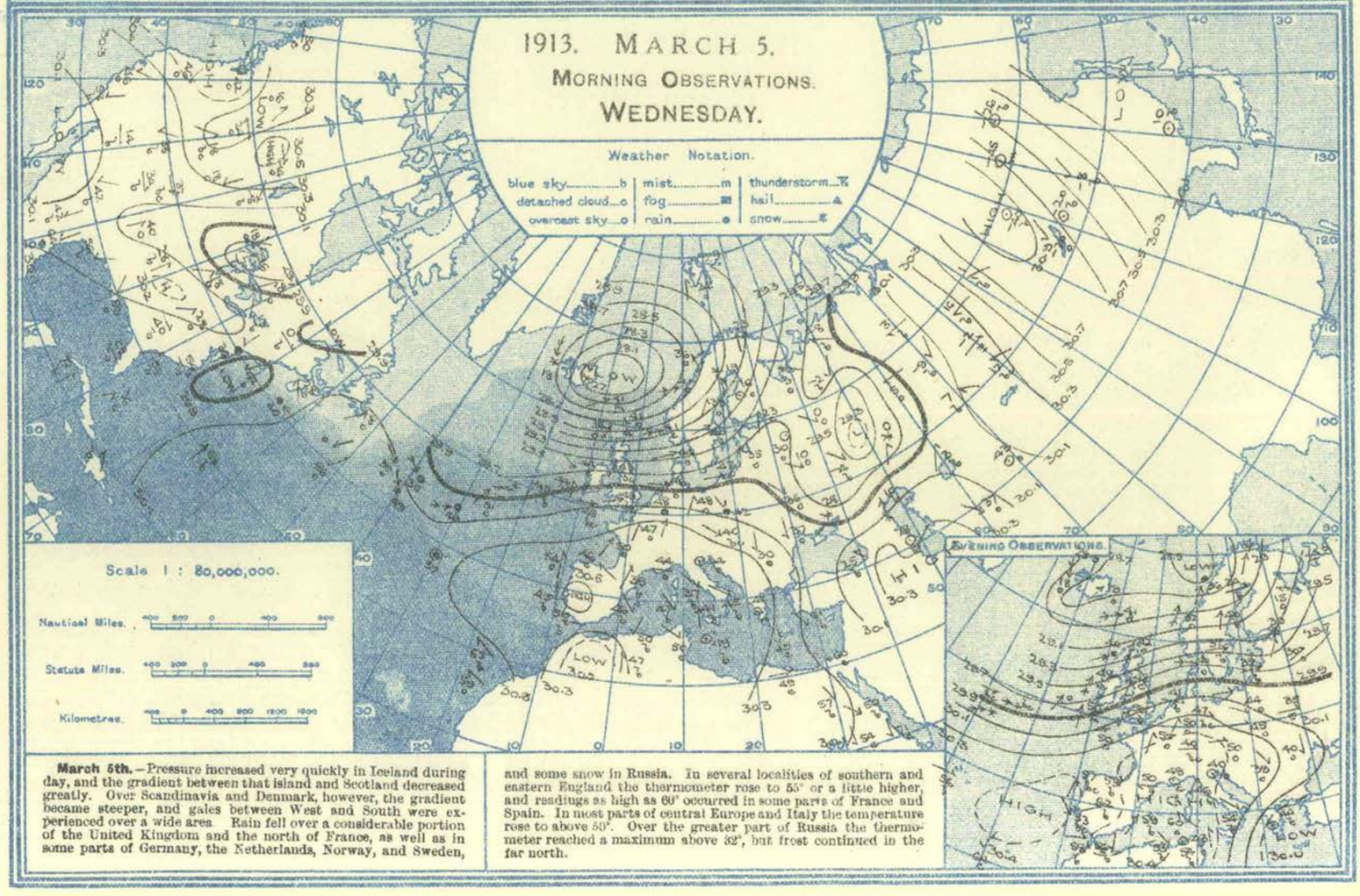
March 2nd.—A large ridge of high pressure moved in an easterly direction during day on the Continent, while a depression on the Atlantic encroached on these Islands. Temperature rose to above 50° over the greater part of the United Kingdom and the west of France, but failed to touch that point in Italy and the east of France, and remained below 32° over the major portion of Austria-Hungary, and eastern and northern Europe; at Lemberg the minimum at night was −4°, and sharp or severe frost was general throughout the central countries. Maxima above 60° were recorded in some parts of Spain and Algeria, and also at Perpignan. Heavy rain fell in Ireland and a moderate or slight amount in most parts of Great Britain. Rain or snow was experienced in Norway, but on the Continent generally the weather was dry.



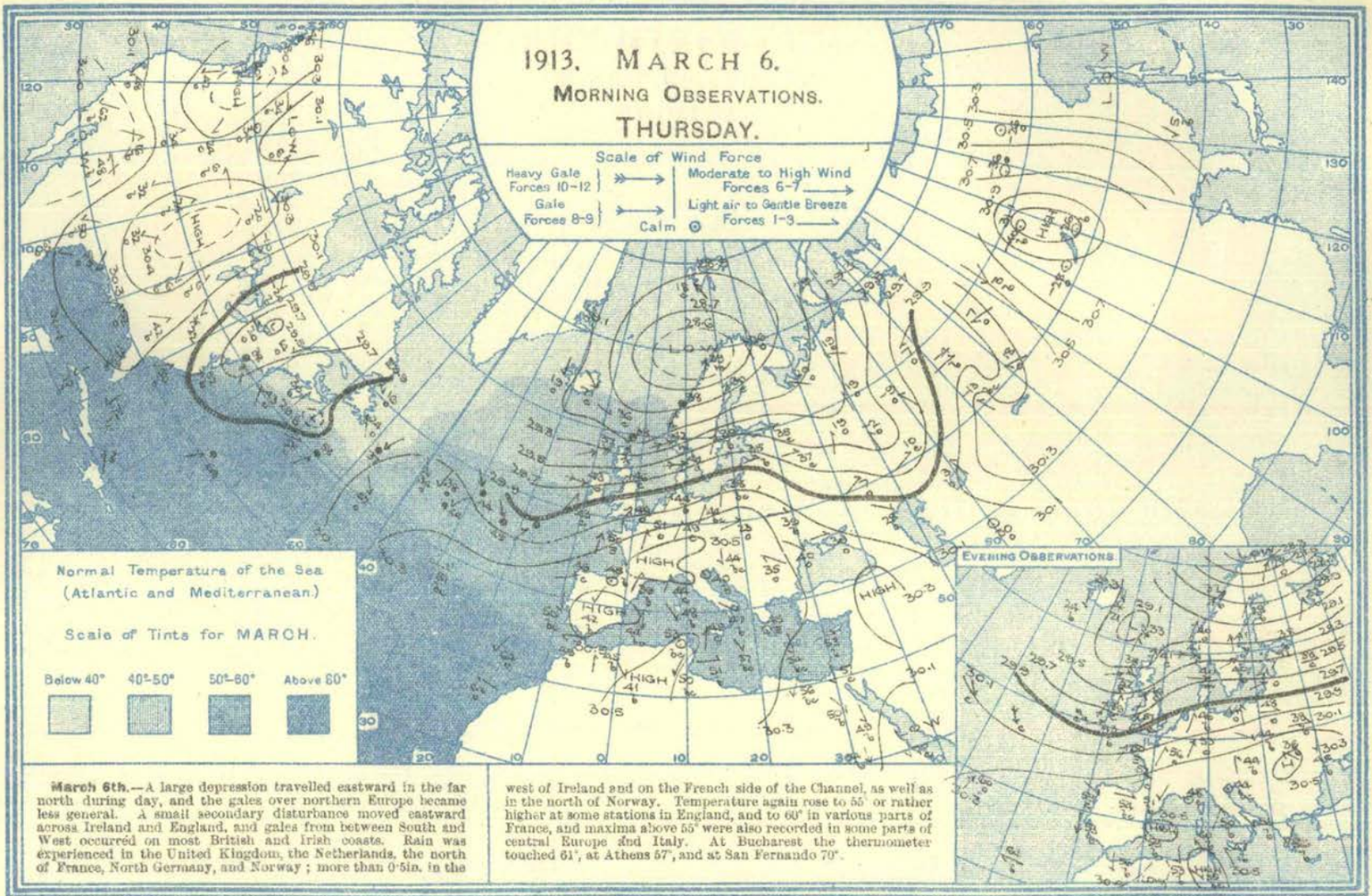
March. 3rd.—A depression in the far north travelled eastward during day, while a very decided increase of pressure occurred over Ireland, and thence to the Azores. The wind decreased in force on our western coasts, but increased in the south-east of England, and blew a gale on the coast of Holland. Rain was experienced very generally over these Islands, the Netherlands, and Germany, and rain or snow in Scandinavia, but the quantity was slight or moderate. The thermometer rose to above 50° over a large area in this country and France, and to above 60° at some stations in the far south of Europe and in Algeria. In several Italian localities the temperature remained below 50°, and only reached 51° at Palermo. Frost continued in some parts of Hungary, and also in Russia and Roumania. At Moscow the 6 p.m. temperature reading was as low as −5°.



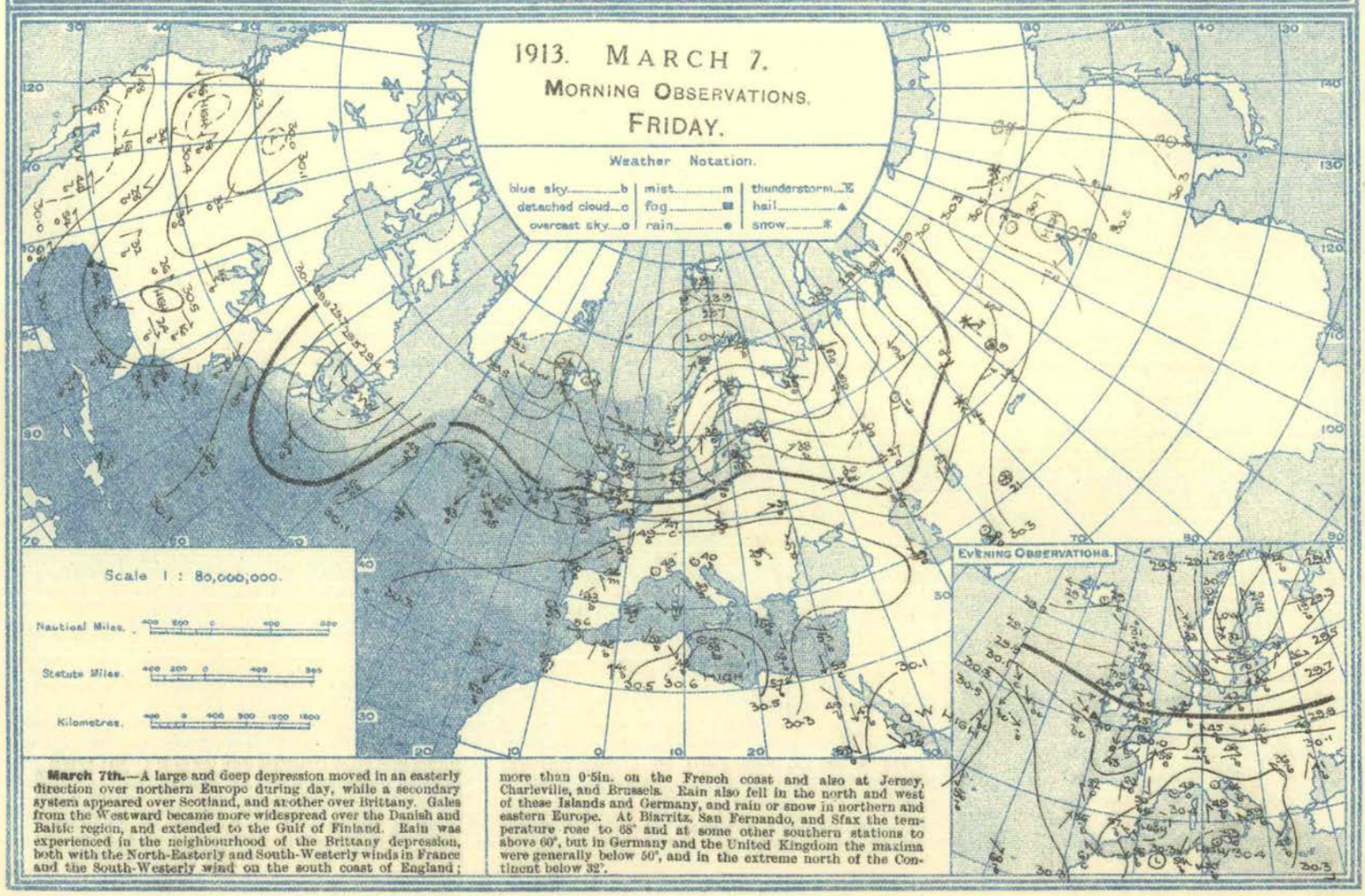
March 4th.—The centre of a very deep depression moved north-eastward over Iceland during day, and gales from the South-Westward were experienced over the British Islands and their vicinity. Rain fell in the United Kingdom, the north of France, and in Norway, and snow in Russia, but elsewhere the weather was mostly fair and dry. In many parts of these Islands the temperature rose to about 55°, and a similar value was reached or exceeded over a large area in France. In Spain and the extreme south of France, as well as in Algeria, the thermometer rose above 60°, but in Italy the readings were lower than in this country. Frost continued in the north-east and east of Europe, and occurred at night in Italy, as far south as Naples.



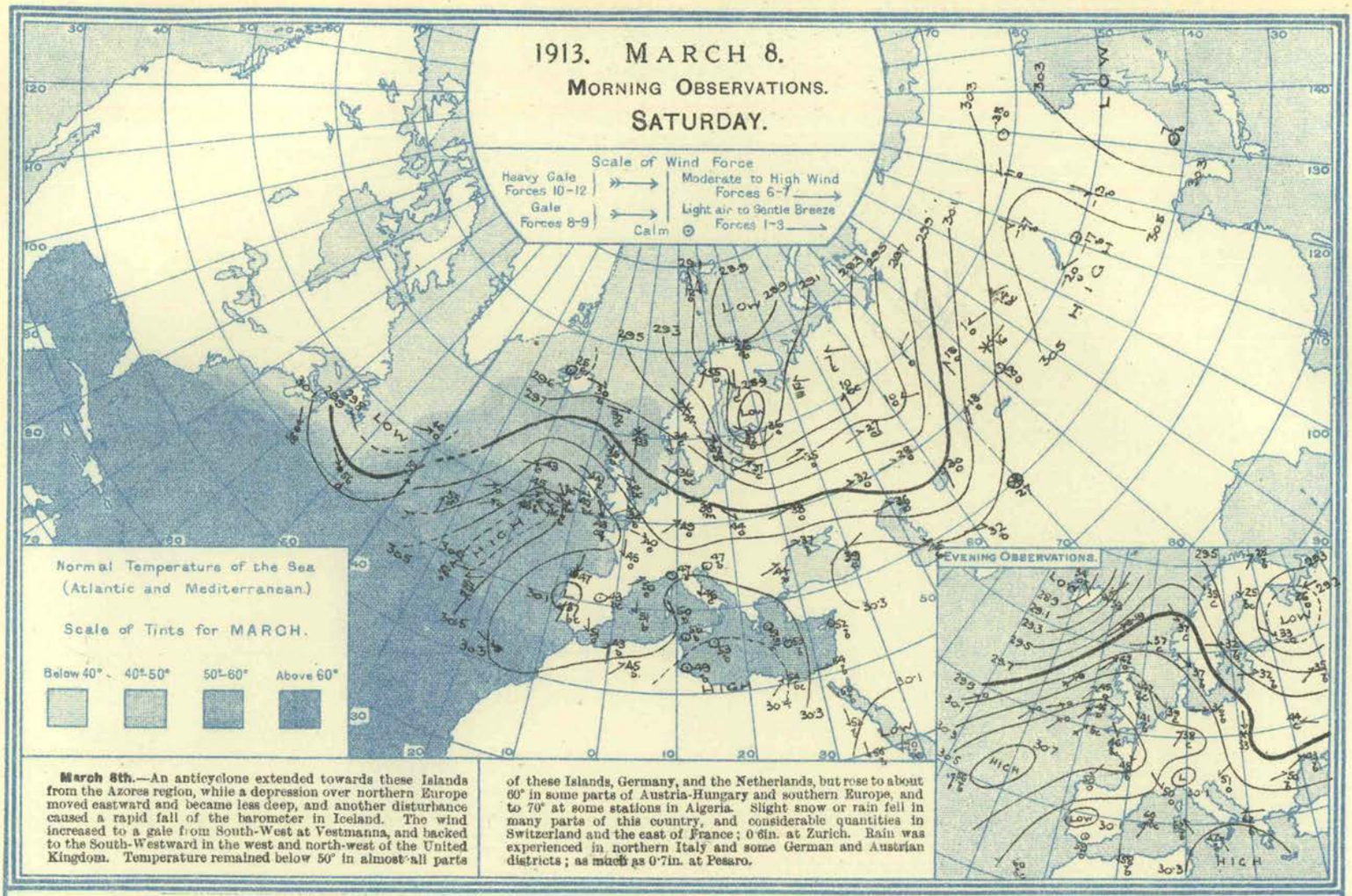
March 5th.—Pressure increased very quickly in Iceland during day, and the gradient between that island and Scotland decreased greatly. Over Scandinavia and Denmark, however, the gradient became steeper, and gales between West and South were experienced over a wide area. Rain fell over a considerable portion of the United Kingdom and the north of France, as well as in some parts of Germany, the Netherlands, Norway, and Sweden, and some snow in Russia. In several localities of southern and eastern England the thermometer rose to 55° or a little higher, and readings as high as 60° occurred in some parts of France and Spain. In most parts of central Europe and Italy the temperature rose to above 50°. Over the greater part of Russia the thermometer reached a maximum above 32°, but frost continued in the far north.



March 6th.—A large depression travelled eastward in the far north during day, and the gales over northern Europe became less general. A small secondary disturbance moved eastward across Ireland and England, and gales from between South and West occurred on most British and Irish coasts. Rain was experienced in the United Kingdom, the Netherlands, the north of France, North Germany, and Norway; more than 0·5in. in the west of Ireland and on the French side of the Channel, as well as in the north of Norway. Temperature again rose to 55° or rather higher at some stations in England, and to 60° in various parts of France, and maxima above 55° were also recorded in some parts of central Europe and Italy. At Bucharest the thermometer touched 61°, at Athens 57°, and at San Fernando 70°.

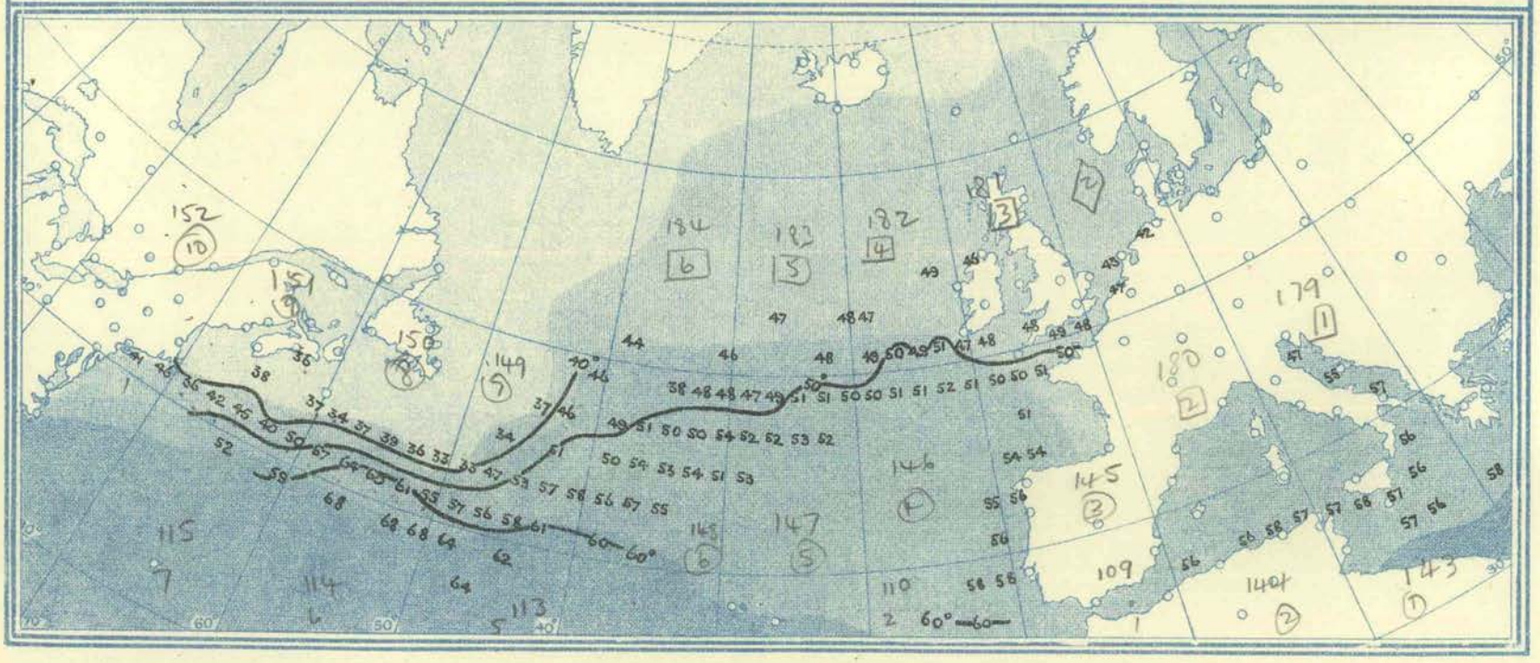


March 7th.—A large and deep depression moved in an easterly direction over northern Europe during day, while a secondary system appeared over Scotland, and another over Brittany. Gales from the Westward became more widespread over the Danish and Baltic region, and extended to the Gulf of Finland. Rain was experienced in the neighbourhood of the Brittany depression, both with the North-Easterly and South-Westerly winds in France and the South-Westerly wind on the south coast of England; more than 0·5in. on the French coast and also at Jersey, Charleville, and Brussels. Rain also fell in the north and west of these Islands and Germany, and rain or snow in northern and eastern Europe. At Biarritz, San Fernando, and Sfax the temperature rose to 68° and at some other southern stations to above 60°, but in Germany and the United Kingdom the maxima were generally below 50°, and in the extreme north of the Continent below 32°.



March 8th.—An anticyclone extended towards these Islands from the Azores region, while a depression over northern Europe moved eastward and became less deep, and another disturbance caused a rapid fall of the barometer in Iceland. The wind increased to a gale from South-West at Vestmanna, and backed to the South-Westward in the west and north-west of the United Kingdom. Temperature remained below 50° in almost all parts of these Islands, Germany, and the Netherlands, but rose to about 60° in some parts of Austria-Hungary and southern Europe, and to 70° at some stations in Algeria. Slight snow or rain fell in many parts of this country, and considerable quantities in Switzerland and the east of France; 0·6in. at Zurich. Rain was experienced in northern Italy and some German and Austrian districts; as much as 0·7in. at Pesaro.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 8TH. MARCH, 1913.



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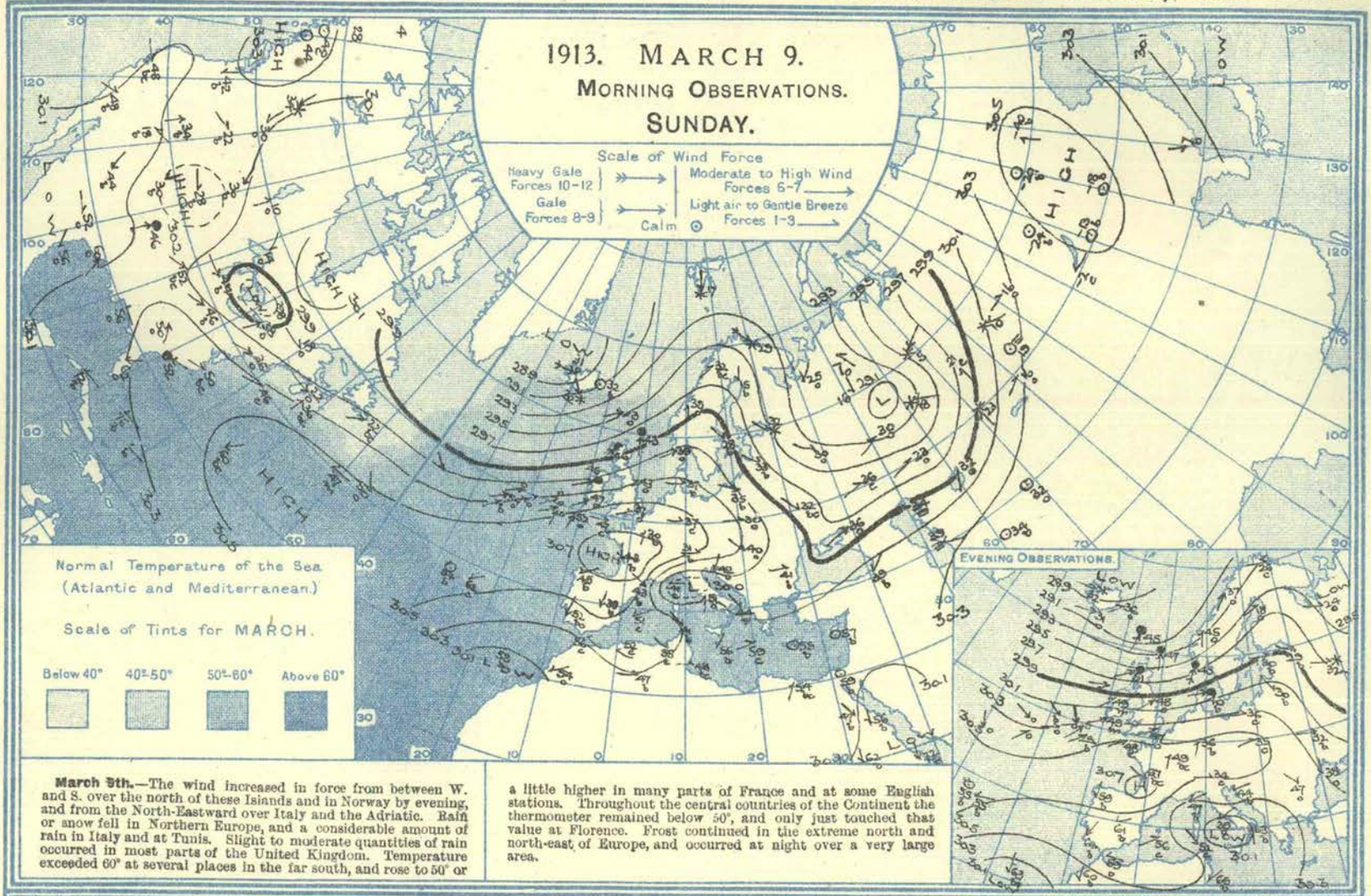
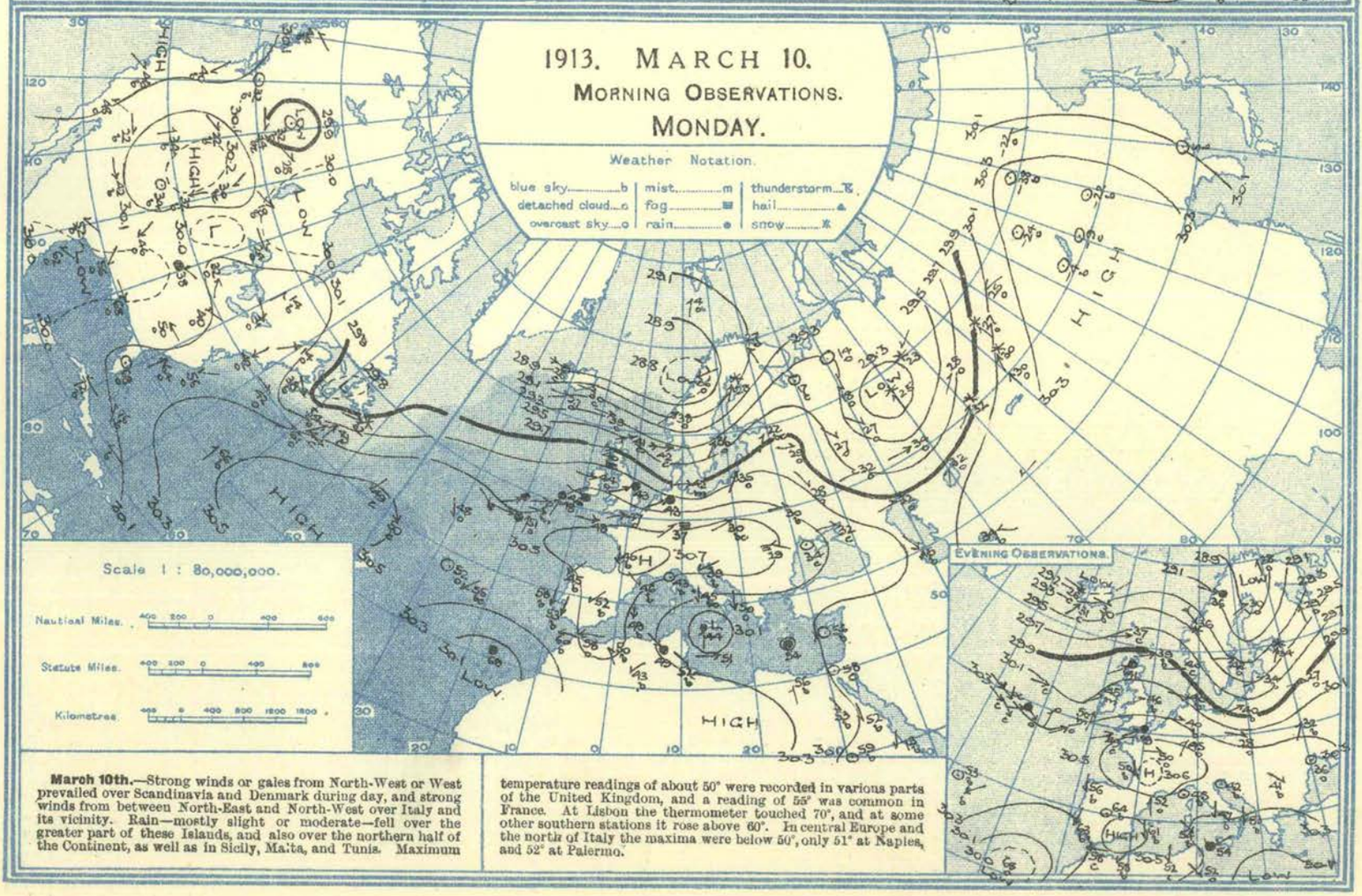
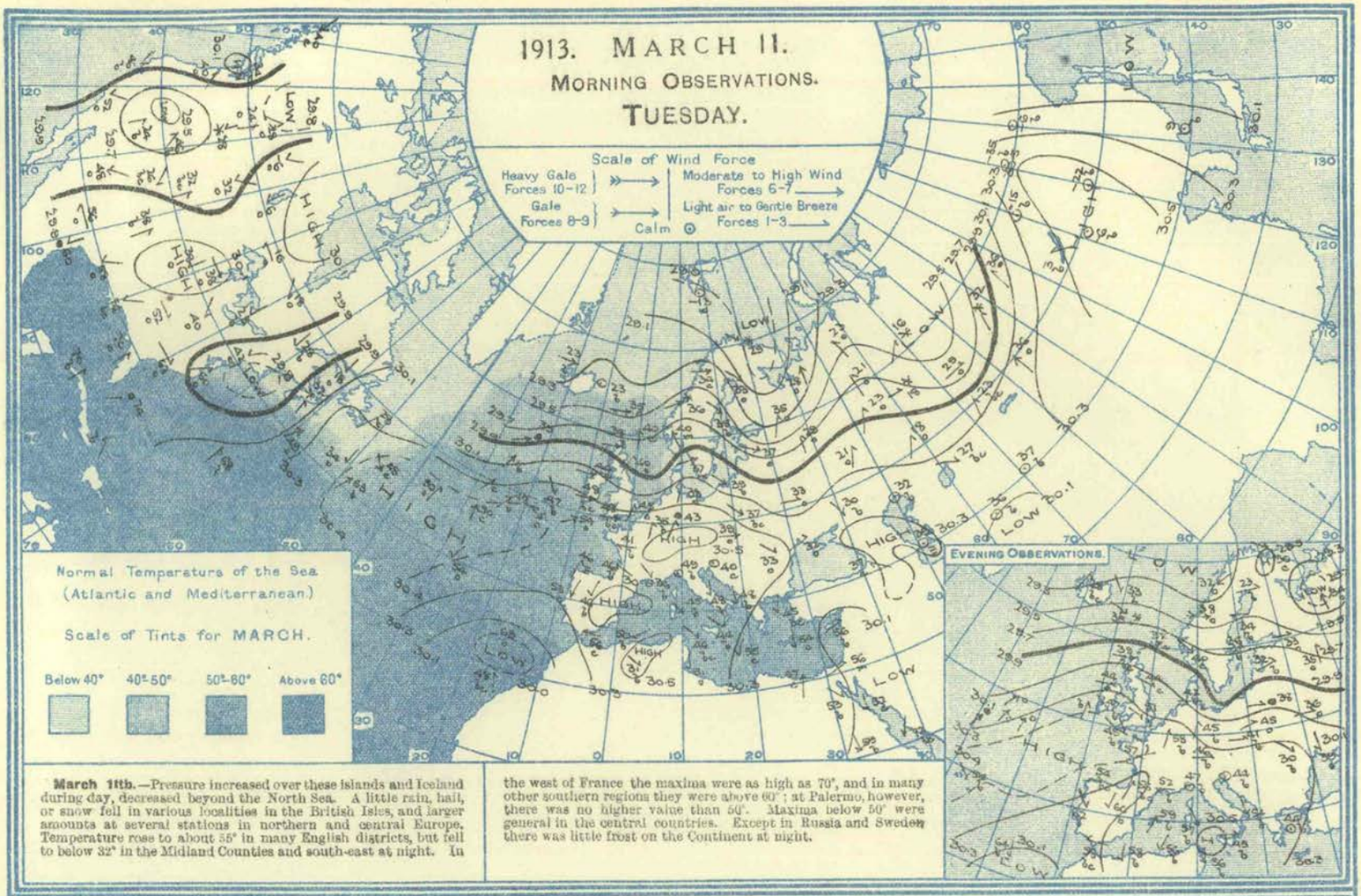


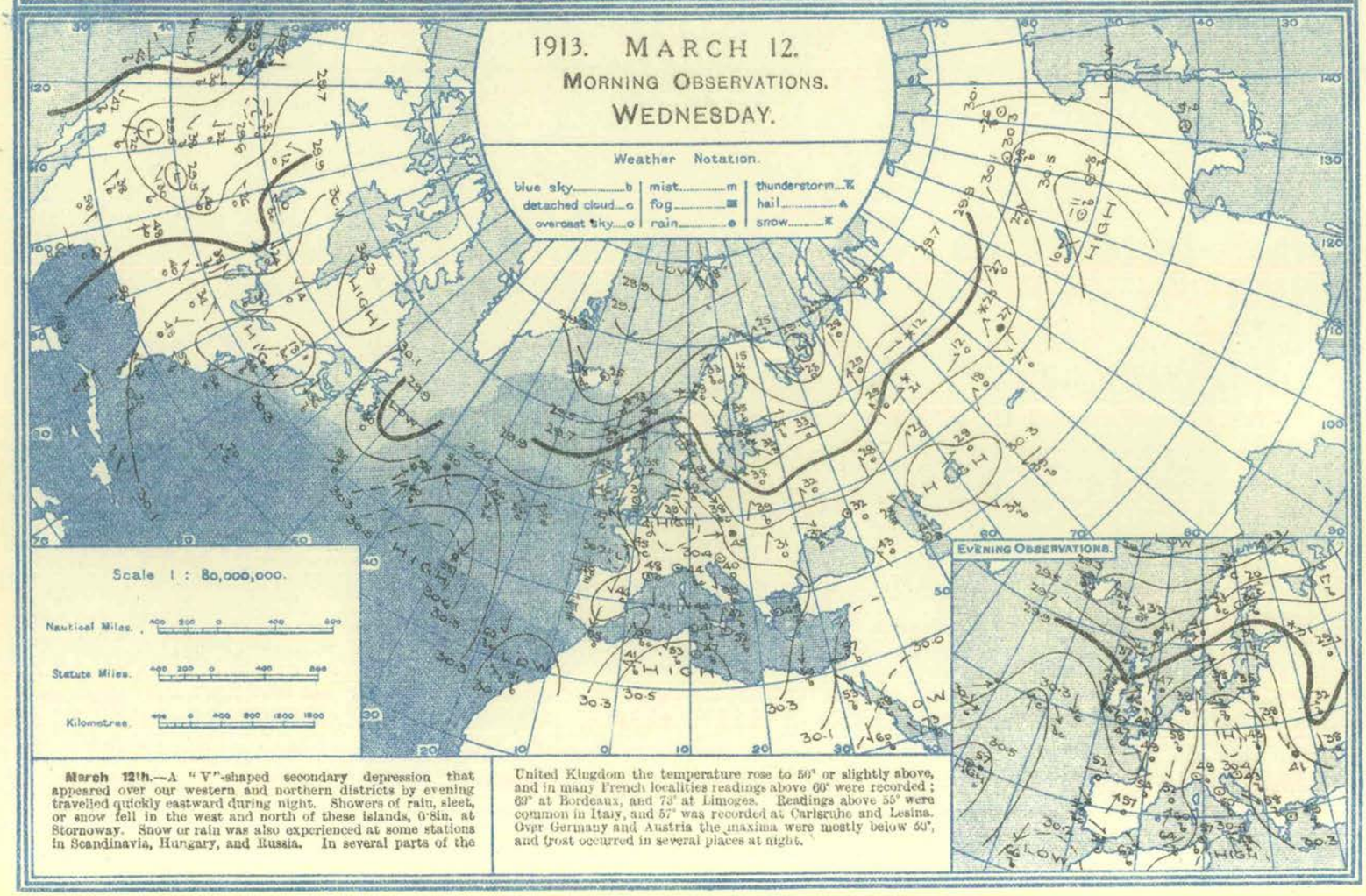
March 9th.—The wind increased in force from between W. and S. over the north of these Islands and in Norway by evening, and from the North-Eastward over Italy and the Adriatic. Rain or snow fell in Northern Europe, and a considerable amount of rain in Italy and at Tunis. Slight to moderate quantities of rain occurred in most parts of the United Kingdom. Temperature exceeded 60° at several places in the far south, and rose to 50° or a little higher in many parts of France and at some English stations. Throughout the central countries of the Continent the thermometer remained below 50°, and only just touched that value at Florence. Frost continued in the extreme north and north-east of Europe, and occurred at night over a very large area.



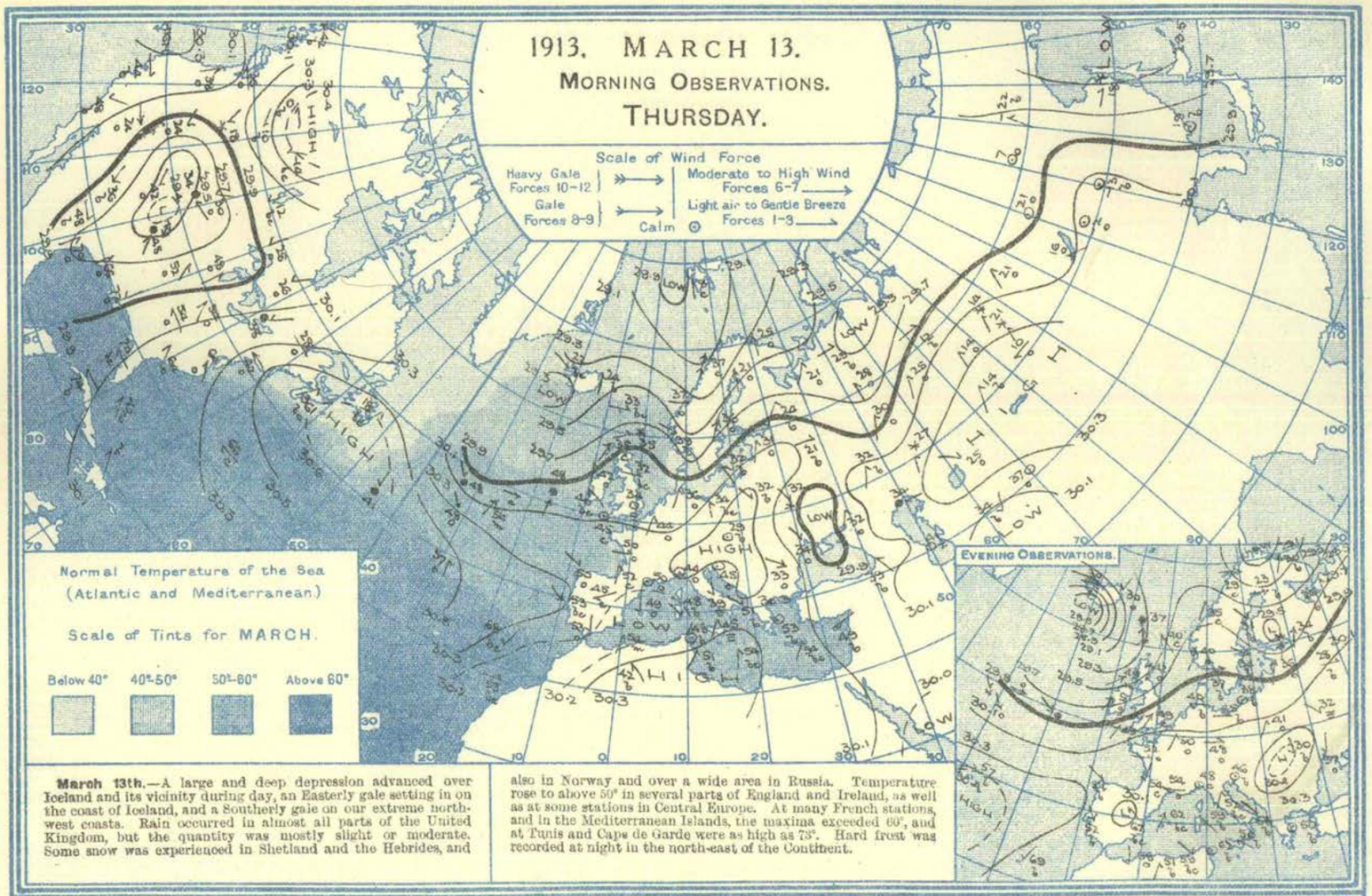
March 10th.—Strong winds or gales from North-West or West prevailed over Scandinavia and Denmark during day, and strong winds from between North-East and North-West over Italy and its vicinity. Rain—mostly slight or moderate—fell over the greater part of these Islands, and also over the northern half of the Continent, as well as in Sicily, Malta, and Tunis. Maximum temperature readings of about 50° were recorded in various parts of the United Kingdom, and a reading of 55° was common in France. At Lisbon the thermometer touched 70°, and at some other southern stations it rose above 60°. In central Europe and the north of Italy the maxima were below 50°, only 51° at Naples, and 52° at Palermo.



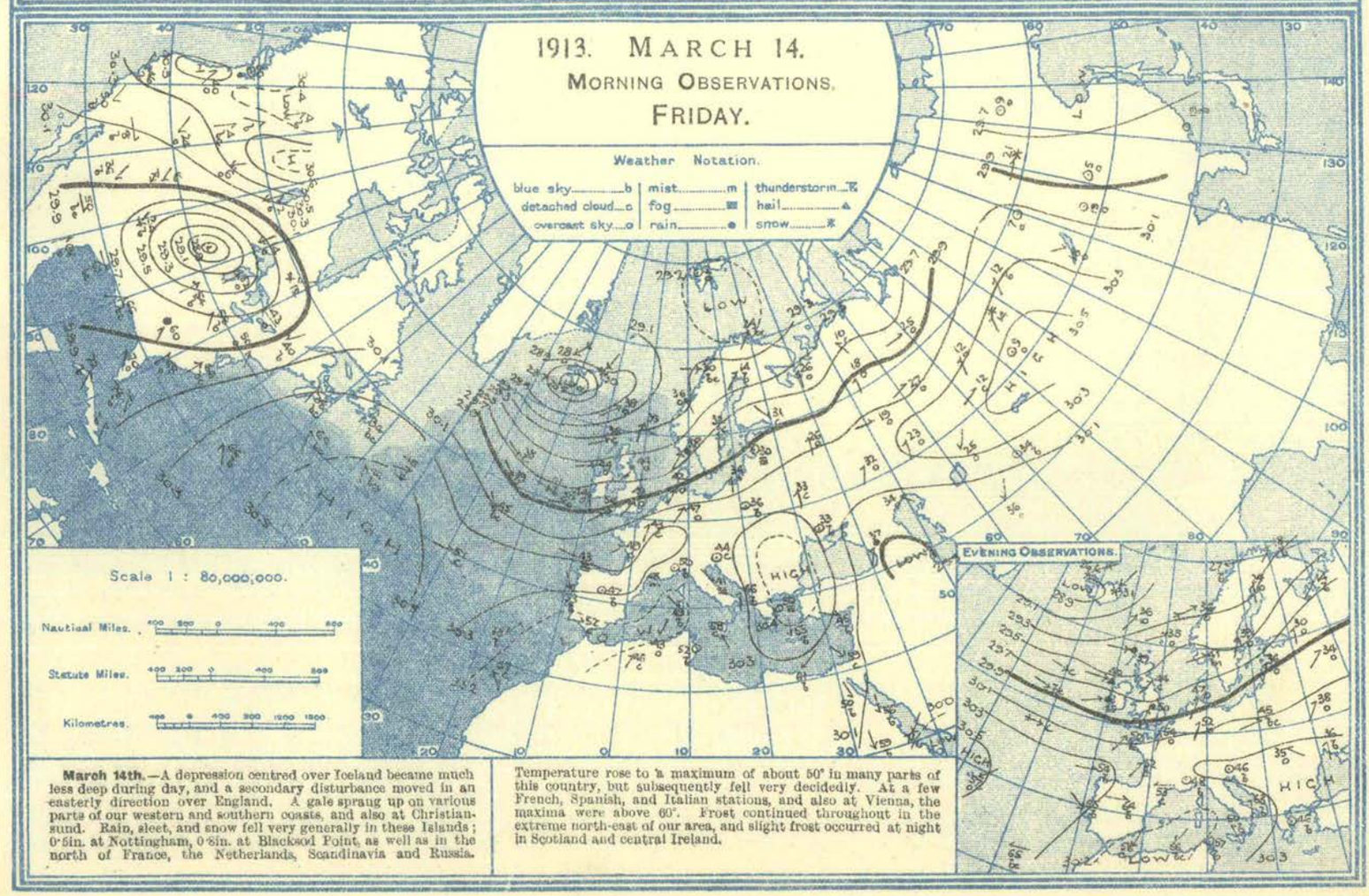
March 11th.—Pressure increased over these islands and Iceland during day, decreased beyond the North Sea. A little rain, hail, or snow fell in various localities in the British Isles, and larger amounts at several stations in northern and central Europe. Temperature rose to about 55° in many English districts, but fell to below 32° in the Midland Counties and south-east at night. In the west of France the maxima were as high as 70°, and in many other southern regions they were above 60°; at Palermo, however, there was no higher value than 59°. Maxima below 50° were general in the central countries. Except in Russia and Sweden there was little frost on the Continent at night.



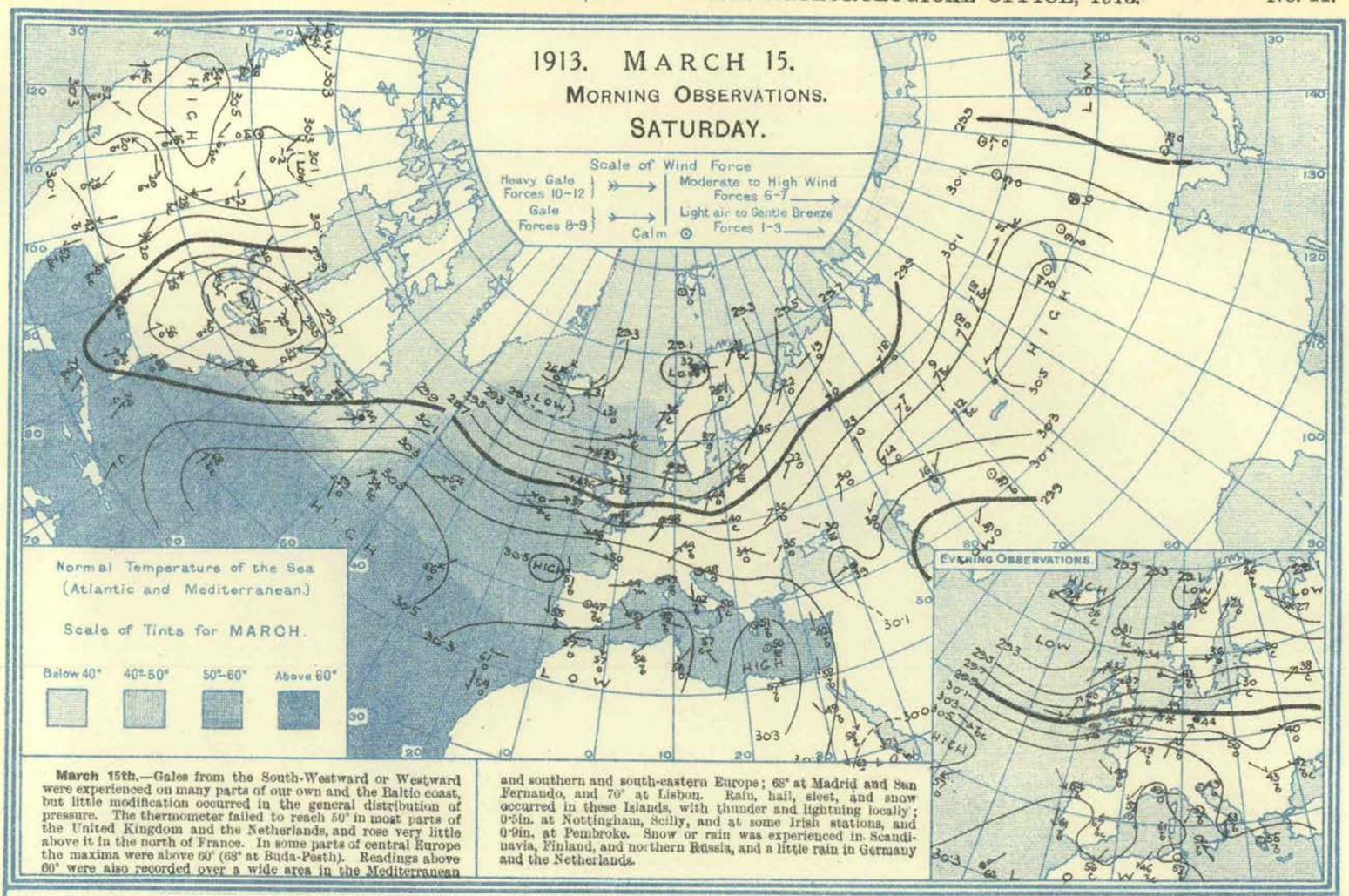
March 12th.—A "V"-shaped secondary depression that appeared over our western and northern districts by evening travelled quickly eastward during night. Showers of rain, sleet, or snow fell in the west and north of these islands, 0·8in. at Stornoway. Snow or rain was also experienced at some stations in Scandinavia, Hungary, and Russia. In several parts of the United Kingdom the temperature rose to 50° or slightly above, and in many French localities readings above 60° were recorded; 69° at Bordeaux, and 73° at Limoges. Readings above 55° were common in Italy, and 57° was recorded at Carlsruhe and Lesina. Over Germany and Austria the maxima were mostly below 50°, and frost occurred in several places at night.



March 13th.—A large and deep depression advanced over Iceland and its vicinity during day, an Easterly gale setting in on the coast of Iceland, and a Southerly gale on our extreme north-west coasts. Rain occurred in almost all parts of the United Kingdom, but the quantity was mostly slight or moderate. Some snow was experienced in Shetland and the Hebrides, and also in Norway and over a wide area in Russia. Temperature rose to above 50° in several parts of England and Ireland, as well as at some stations in Central Europe. At many French stations, and in the Mediterranean Islands, the maxima exceeded 60°, and at Tunis and Cape de Garde were as high as 73°. Hard frost was recorded at night in the north-east of the Continent.

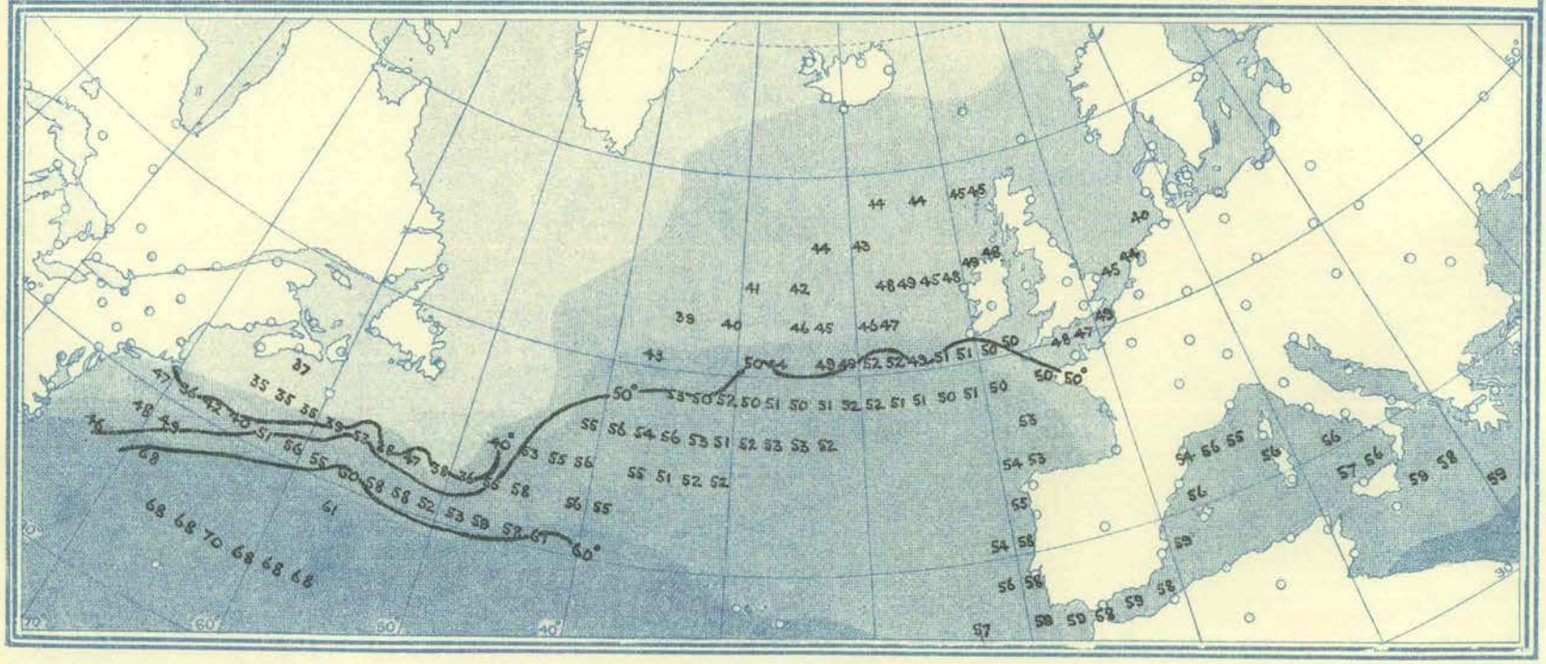


March 14th.—A depression centred over Iceland became much less deep during day, and a secondary disturbance moved in an easterly direction over England. A gale sprang up on various parts of our western and southern coasts, and also at Christiansund. Rain, sleet, and snow fell very generally in these Islands; 0·5in. at Nottingham, 0·8in. at Blacksod Point, as well as in the north of France, the Netherlands, Scandinavia and Russia. Temperature rose to a maximum of about 50° in many parts of this country, but subsequently fell very decidedly. At a few French, Spanish, and Italian stations, and also at Vienna, the maxima were above 60°. Frost continued throughout in the extreme north-east of our area, and slight frost occurred at night in Scotland and central Ireland.



March 15th.—Gales from the South-Westward or Westward were experienced on many parts of our own and the Baltic coast, but little modification occurred in the general distribution of pressure. The thermometer failed to reach 50° in most parts of the United Kingdom and the Netherlands, and rose very little above it in the north of France. In some parts of central Europe the maxima were above 60° (68° at Buda-Pesth). Readings above 60° were also recorded over a wide area in the Mediterranean and southern and south-eastern Europe; 68° at Madrid and San Fernando, and 70° at Lisbon. Rain, hail, sleet, and snow occurred in these Islands, with thunder and lightning locally; 0·5in. at Nottingham, Scilly, and at some Irish stations, and 0·9in. at Pembroke. Snow or rain was experienced in Scandinavia, Finland, and northern Russia, and a little rain in Germany and the Netherlands.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 15TH. MARCH, 1913.



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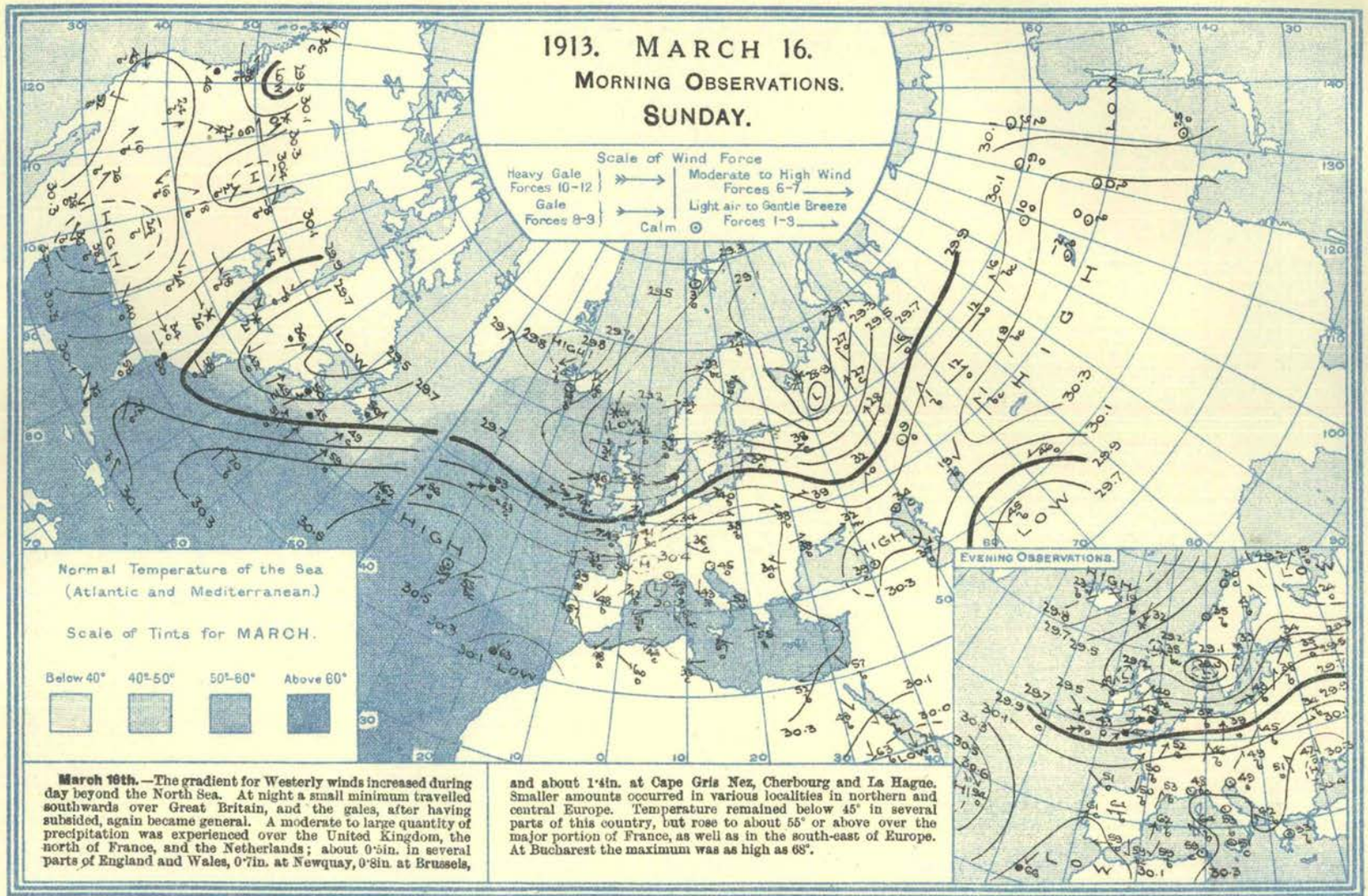
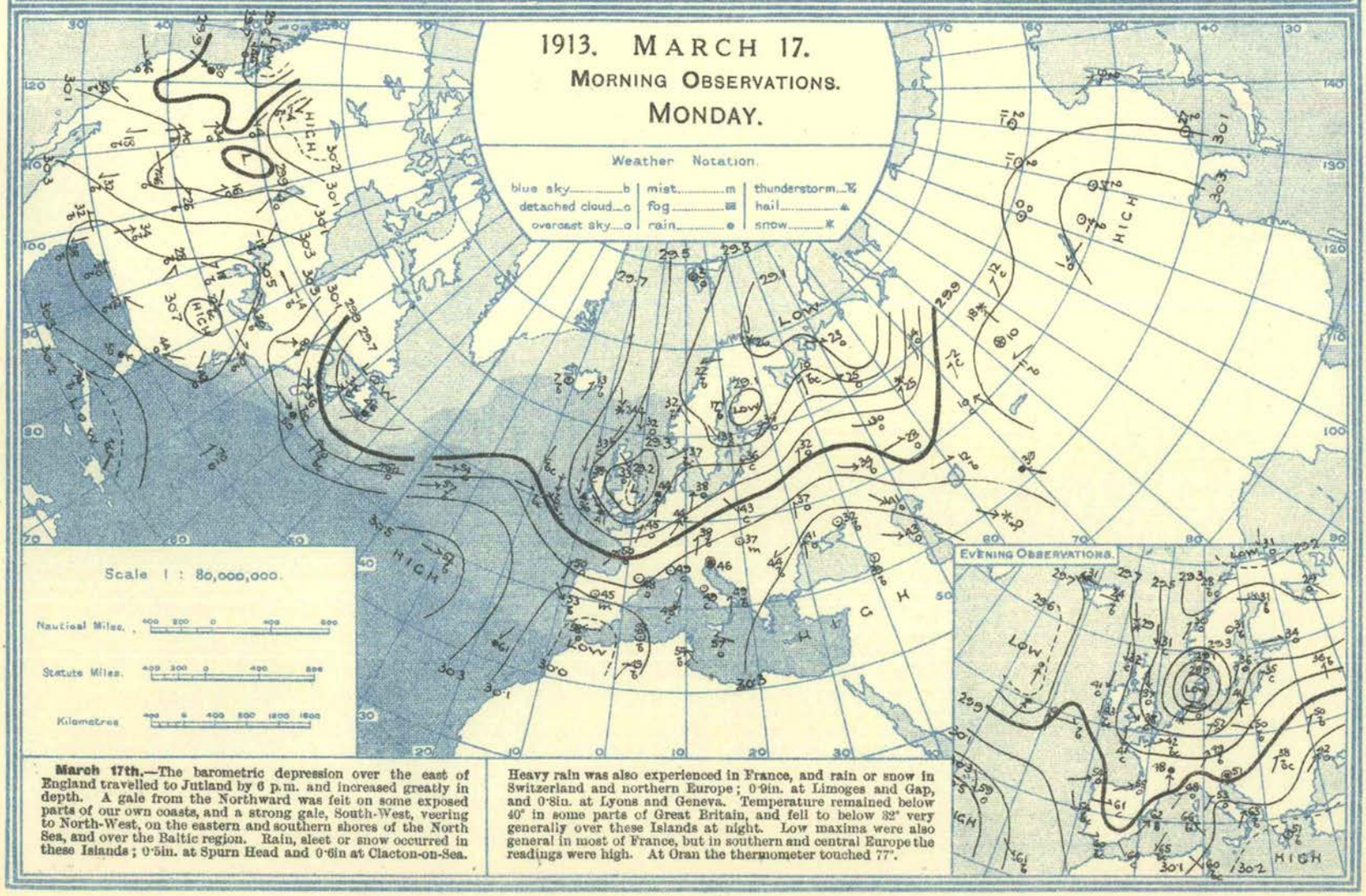
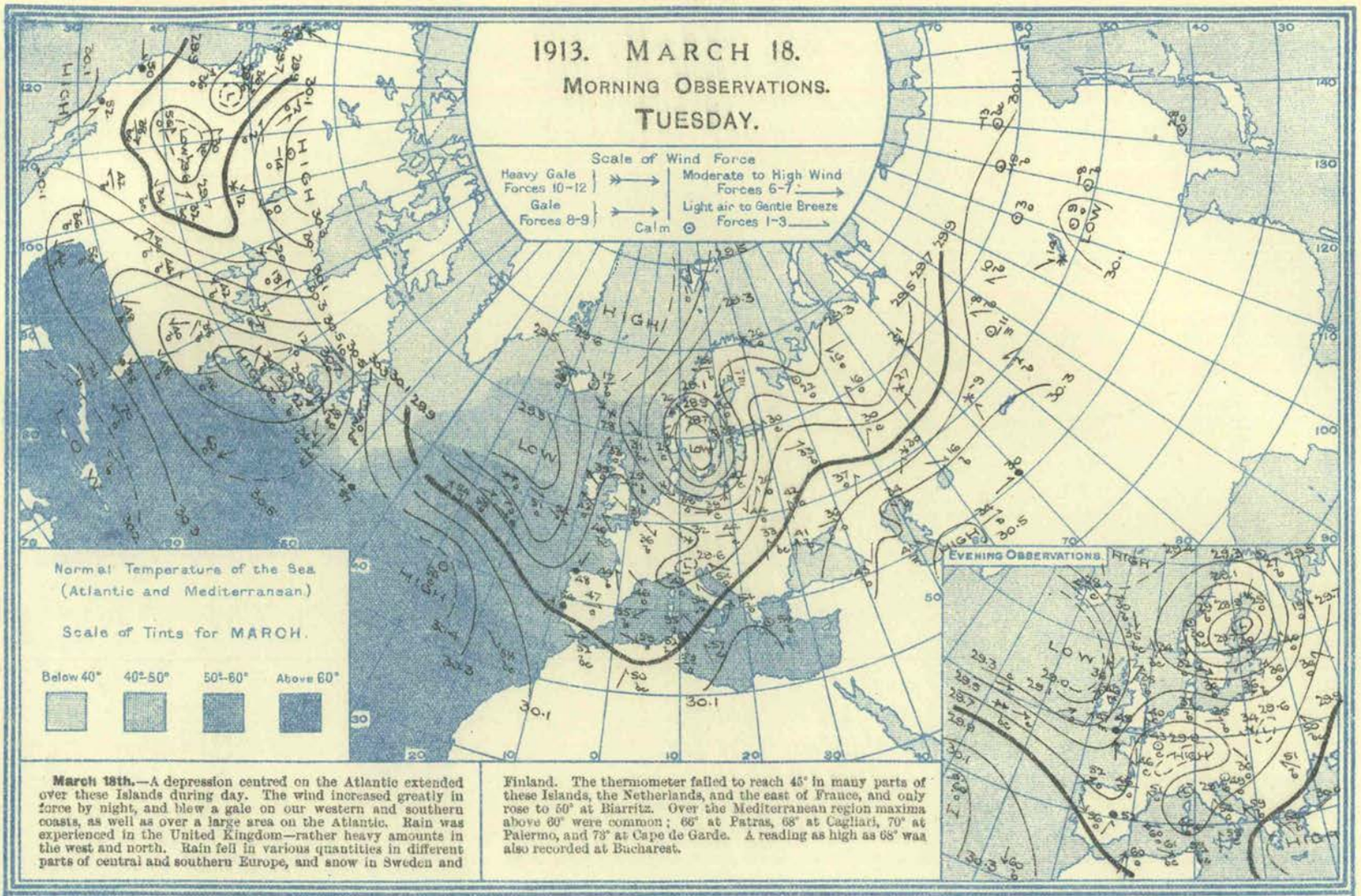


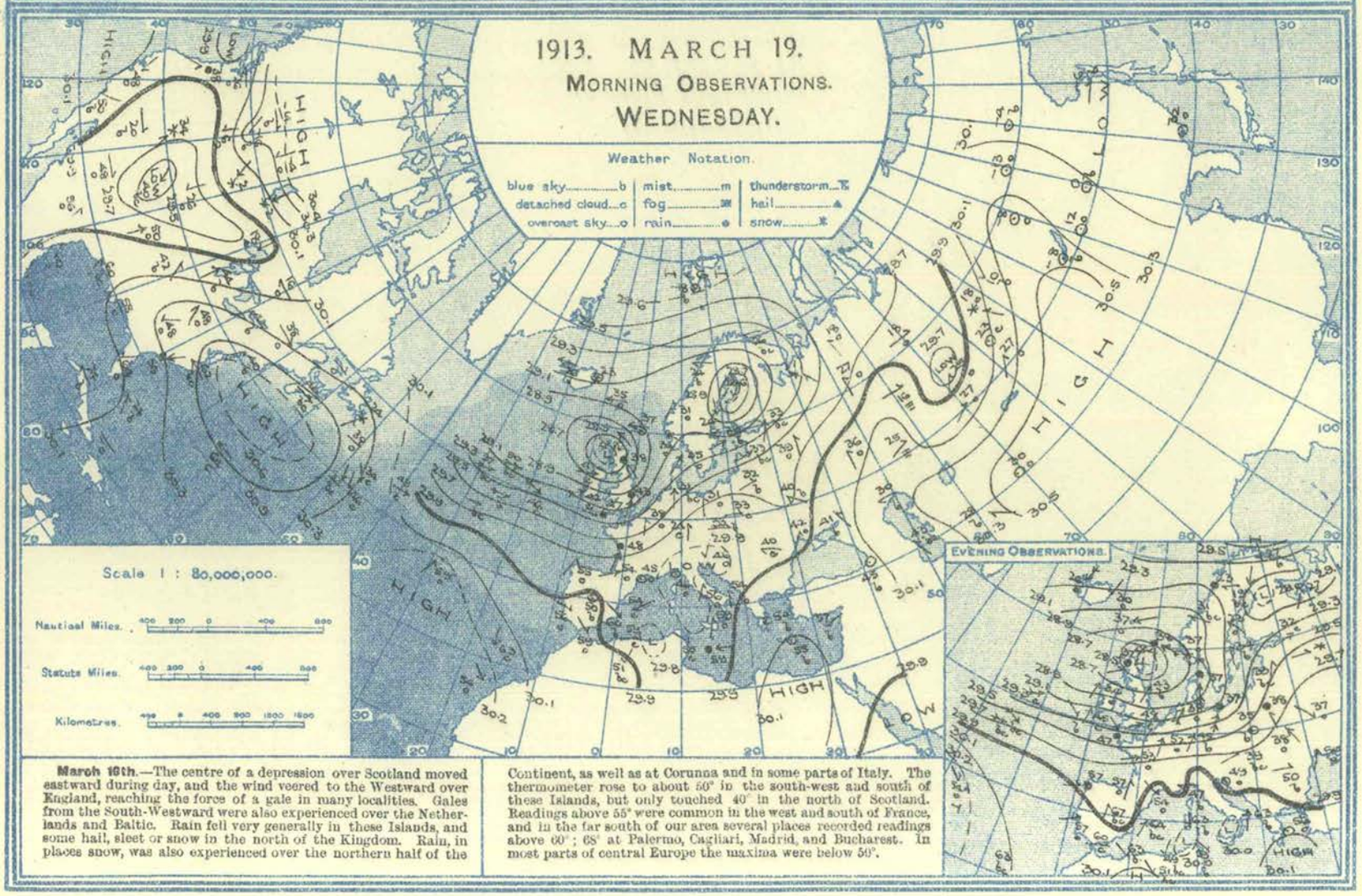
March 16th.—The gradient for Westerly winds increased during day beyond the North Sea. At night a small minimum travelled southwards over Great Britain, and the gales, after having subsided, again became general. A moderate to large quantity of precipitation was experienced over the United Kingdom, the north of France, and the Netherlands; about 0·5in. in several parts of England and Wales, 0·7in. at Newquay, 0·8in. at Brussels, and about 1·4in. at Cape Gris Nez, Cherbourg and La Hague. Smaller amounts occurred in various localities in northern and central Europe. Temperature remained below 45° in several parts of this country, but rose to about 55° or above over the major portion of France, as well as in the south-east of Europe. At Bucharest the maximum was as high as 68°.



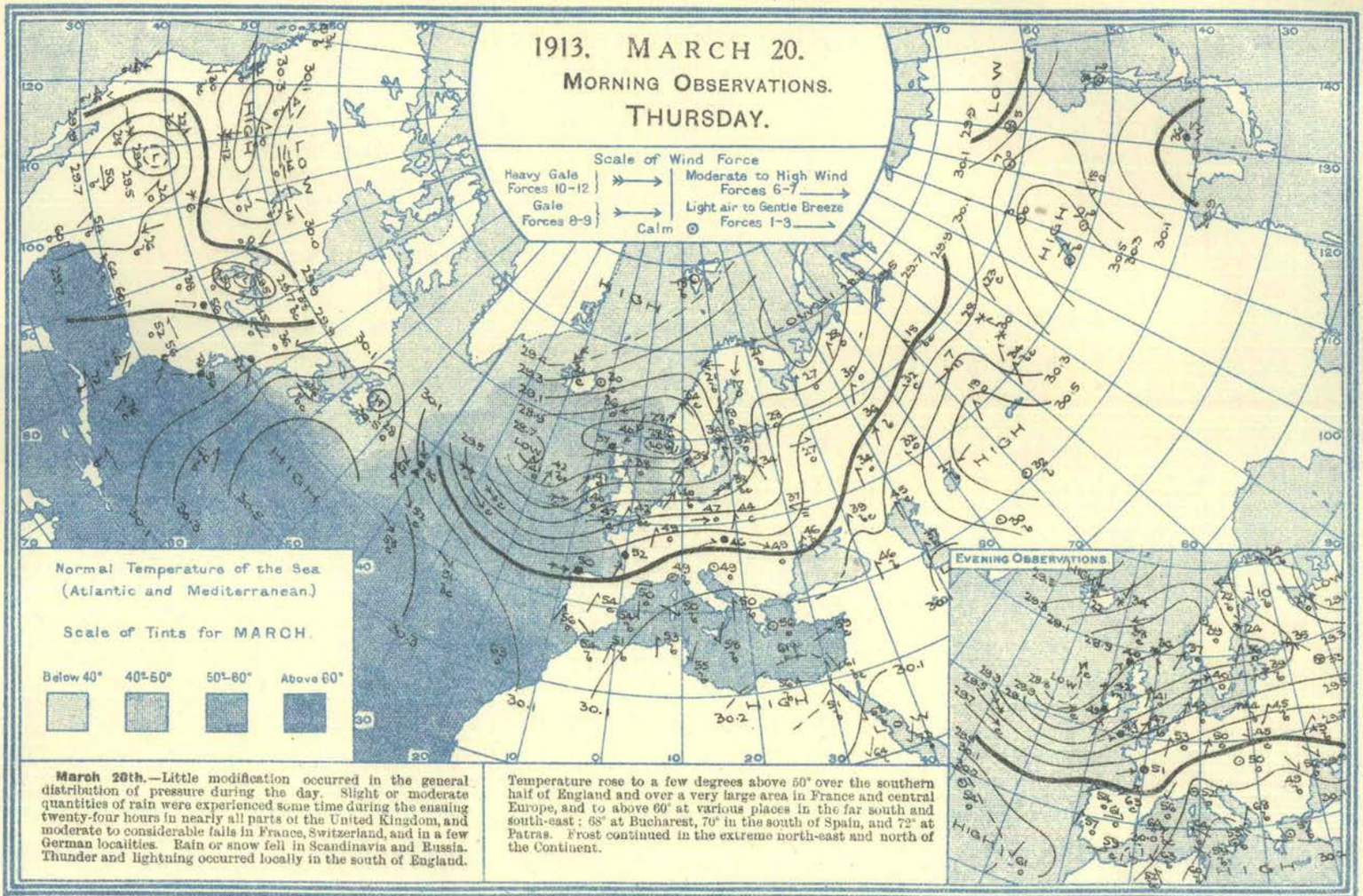
March 17th.—The barometric depression over the east of England travelled to Jutland by 6 p.m. and increased greatly in depth. A gale from the Northward was felt on some exposed parts of our own coasts, and a strong gale, South-West, veering to North-West, on the eastern and southern shores of the North Sea, and over the Baltic region. Rain, sleet or snow occurred in these Islands; 0·5in. at Spurn Head and 0·6in at Clacton-on-Sea. Heavy rain was also experienced in France, and rain or snow in Switzerland and northern Europe; 0·9in. at Limoges and Gap, and 0·8in. at Lyons and Geneva. Temperature remained below 40° in some parts of Great Britain, and fell to below 32° very generally over these Islands at night. Low maxima were also general in most of France, but in southern and central Europe the readings were high. At Oran the thermometer touched 77°.



March 18th.—A depression centred on the Atlantic extended over these Islands during day. The wind increased greatly in force by night, and blew a gale on our western and southern coasts, as well as over a large area on the Atlantic. Rain was experienced in the United Kingdom—rather heavy amounts in the west and north. Rain fell in various quantities in different parts of central and southern Europe, and snow in Sweden and Finland. The thermometer failed to reach 45° in many parts of these Islands, the Netherlands, and the east of France, and only rose to 50° at Biarritz. Over the Mediterranean region maxima above 60° were common; 66° at Patras, 68° at Cagliari, 70° at Palermo, and 73° at Cape de Garde. A reading as high as 68° was also recorded at Bucharest.

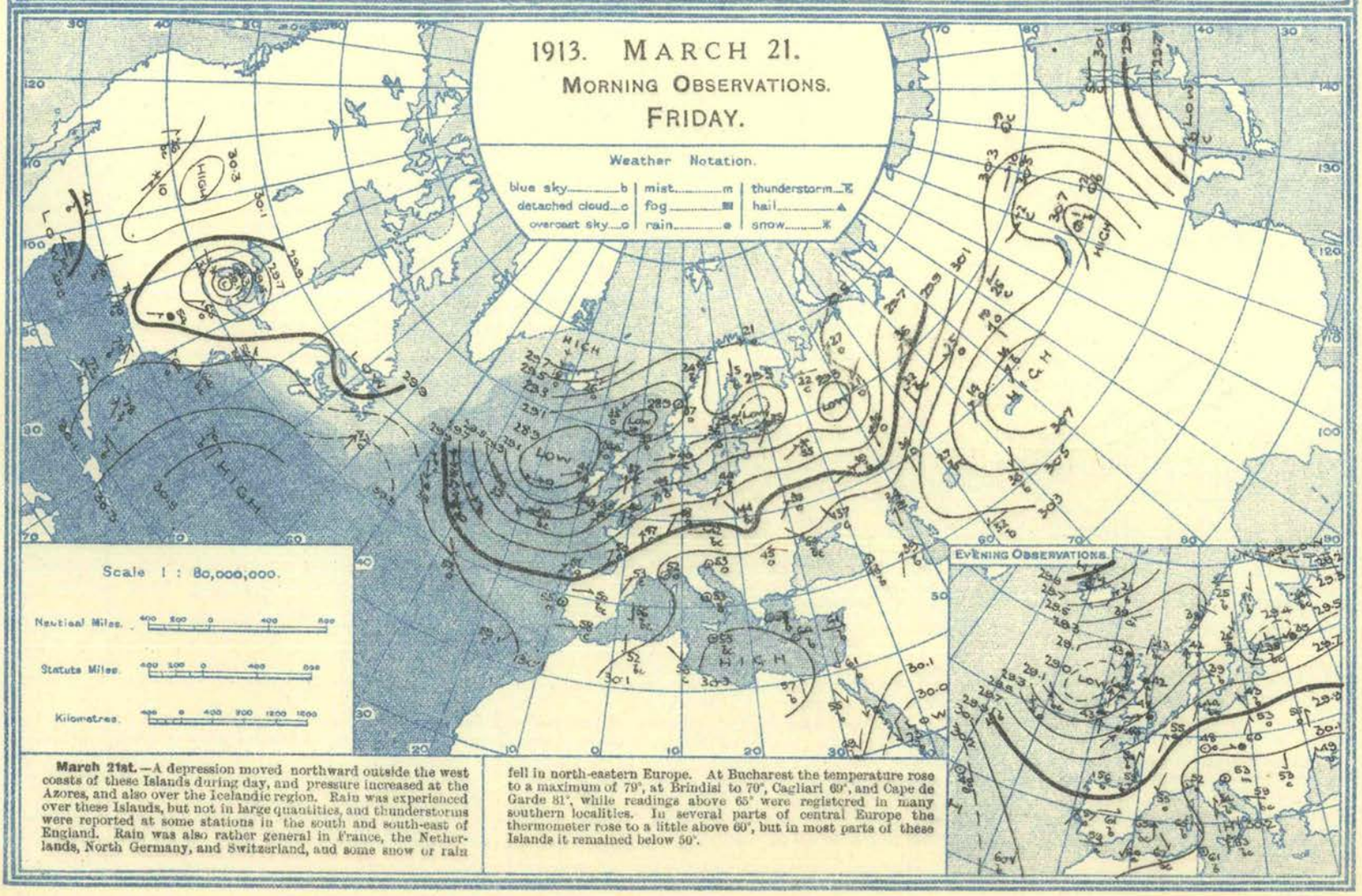


March 19th.—The centre of a depression over Scotland moved eastward during day, and the wind veered to the Westward over England, reaching the force of a gale in many localities. Gales from the South-Westward were also experienced over the Netherlands and Baltic. Rain fell very generally in these Islands, and some hail, sleet or snow in the north of the Kingdom. Rain, in places snow, was also experienced over the northern half of the Continent, as well as at Corunna and in some parts of Italy. The thermometer rose to about 50° in the south-west and south of these Islands, but only touched 40° in the north of Scotland. Readings above 55° were common in the west and south of France, and in the far south of our area several places recorded readings above 60°; 68° at Palermo, Cagliari, Madrid, and Bucharest. In most parts of central Europe the maxima were below 50°.

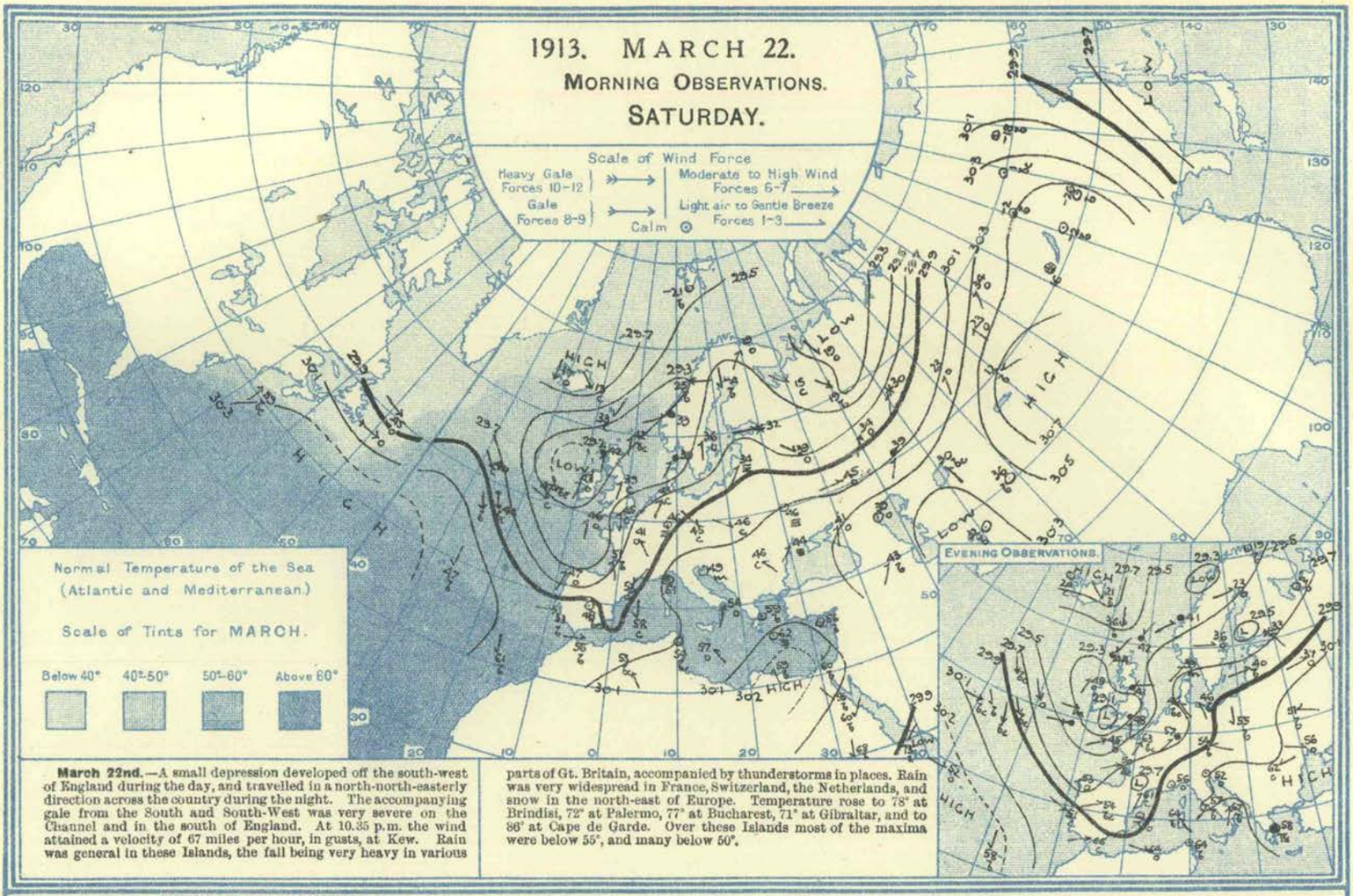


March 20th.—Little modification occurred in the general distribution of pressure during the day. Slight or moderate quantities of rain were experienced some time during the ensuing twenty-four hours in nearly all parts of the United Kingdom, and moderate to considerable falls in France, Switzerland, and in a few German localities. Rain or snow fell in Scandinavia and Russia. Thunder and lightning occurred locally in the south of England.

Temperature rose to a few degrees above 50° over the southern half of England and over a very large area in France and central Europe, and to above 60° at various places in the far south and south-east: 68° at Bucharest, 70° in the south of Spain, and 72° at Patras. Frost continued in the extreme north-east and north of the Continent.

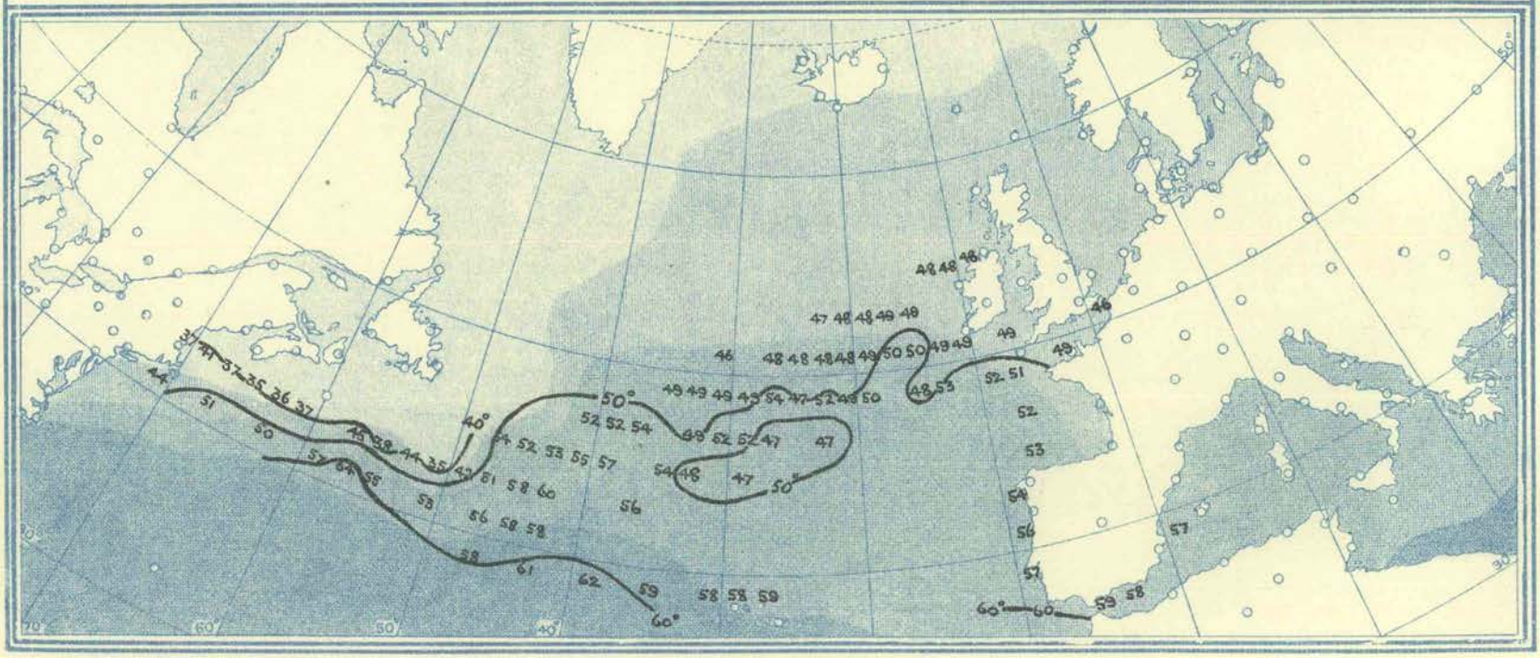


March 21st.—A depression moved northward outside the west coasts of these Islands during day, and pressure increased at the Azores, and also over the Icelandic region. Rain was experienced over these Islands, but not in large quantities, and thunderstorms were reported at some stations in the south and south-east of England. Rain was also rather general in France, the Netherlands, North Germany, and Switzerland, and some snow or rain fell in north-eastern Europe. At Bucharest the temperature rose to a maximum of 79°, at Brindisi to 70°, Cagliari 69°, and Cape de Garde 81°, while readings above 65° were registered in many southern localities. In several parts of central Europe the thermometer rose to a little above 60°, but in most parts of these Islands it remained below 50°.



March 22nd.—A small depression developed off the south-west of England during the day, and travelled in a north-north-easterly direction across the country during the night. The accompanying gale from the South and South-West was very severe on the Channel and in the south of England. At 10.35 p.m. the wind attained a velocity of 67 miles per hour, in gusts, at Kew. Rain was general in these Islands, the fall being very heavy in various parts of Gt. Britain, accompanied by thunderstorms in places. Rain was very widespread in France, Switzerland, the Netherlands, and snow in the north-east of Europe. Temperature rose to 78° at Brindisi, 72° at Palermo, 77° at Bucharest, 71° at Gibraltar, and to 86° at Cape de Garde. Over these Islands most of the maxima were below 55°, and many below 50°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 22ND MARCH, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

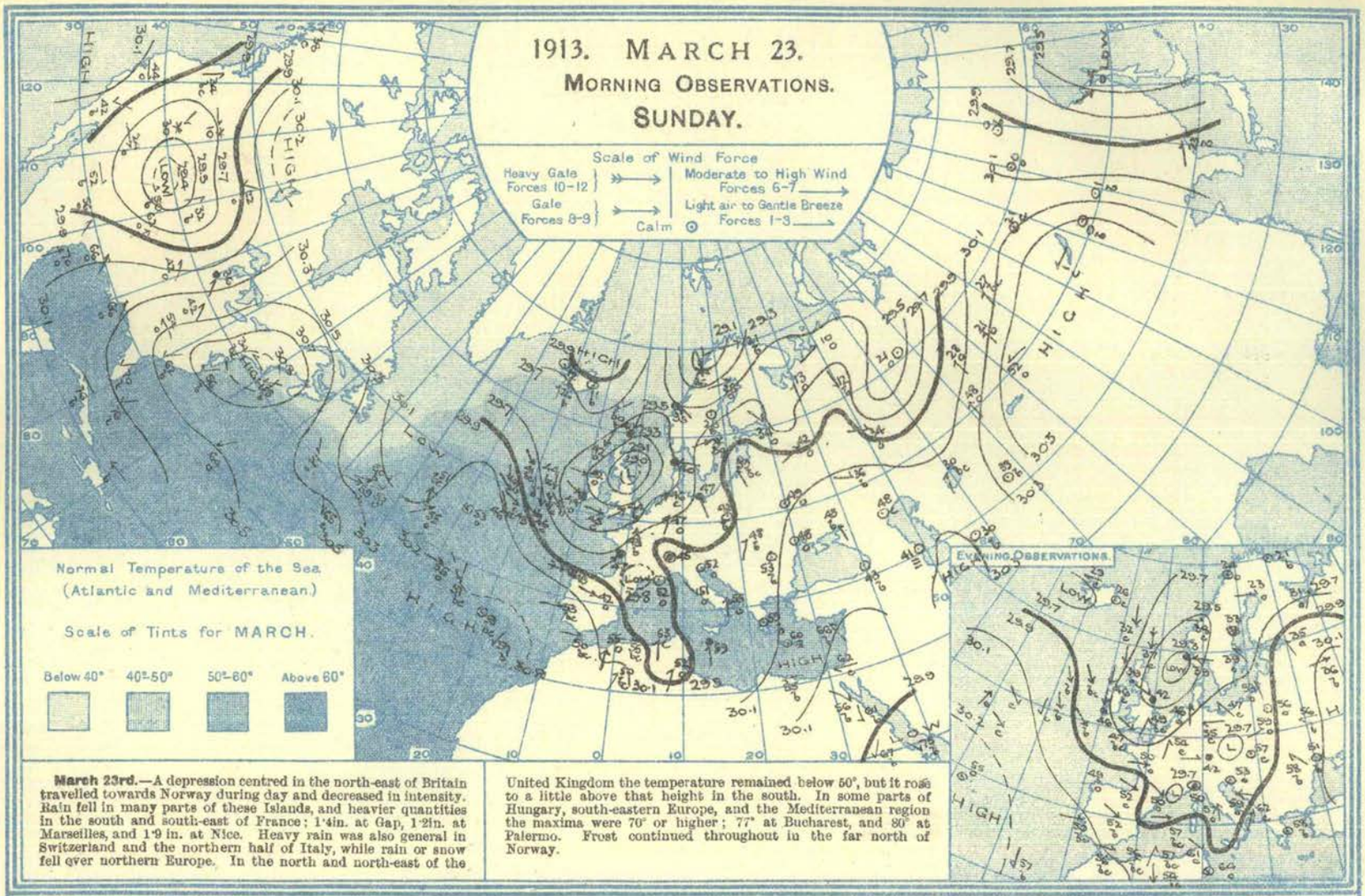
The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy, Austria and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

Observations over the Russian Empire, including Siberia, are taken at 7 a.m. local time.

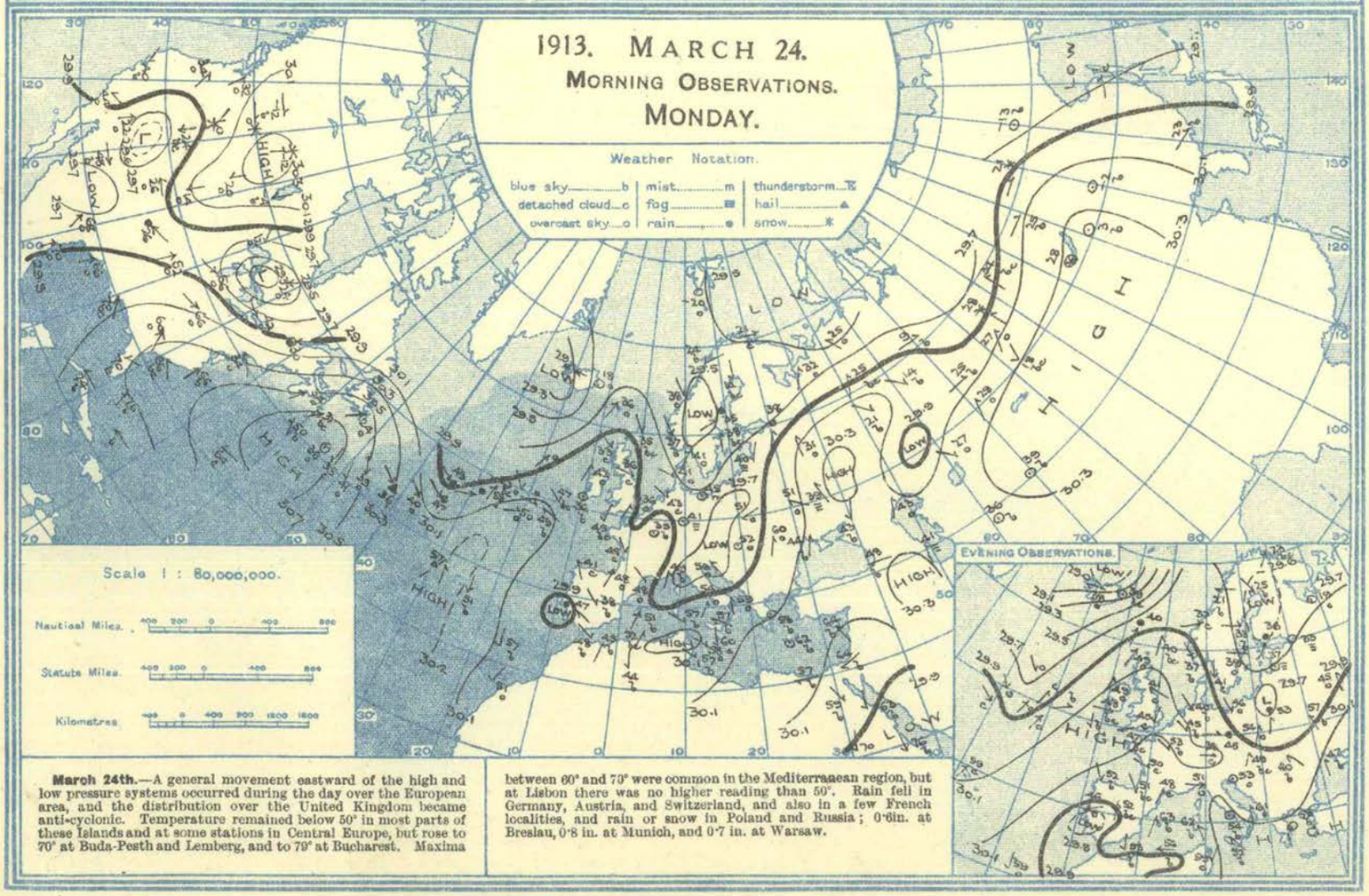
On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

The evening charts are prepared from observations made at 6 p.m. in the British Islands, France, Denmark and Norway; at 4 p.m. in Spain; at 5 p.m. in Iceland; at 6.25 p.m. in Greece; at 7 p.m. in Holland and Germany; at 8 p.m. in Belgium, Sweden, Switzerland, Italy and Austria; and at 9.37 p.m. in Portugal and 9 p.m. in the Azores. Over the Russian Empire (including Siberia) they are taken at 9 p.m. local time.

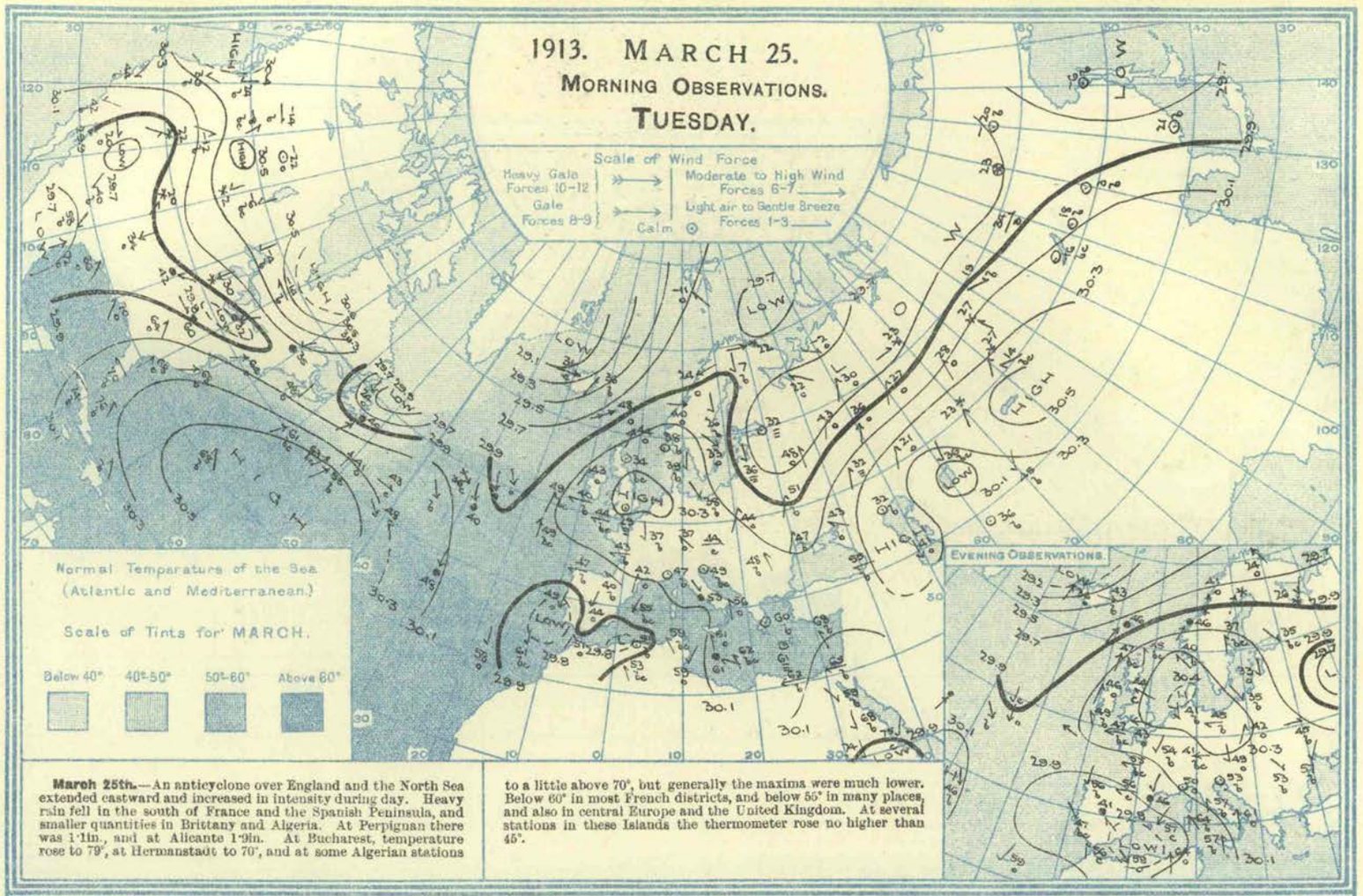
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40 and 80° are shown by blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



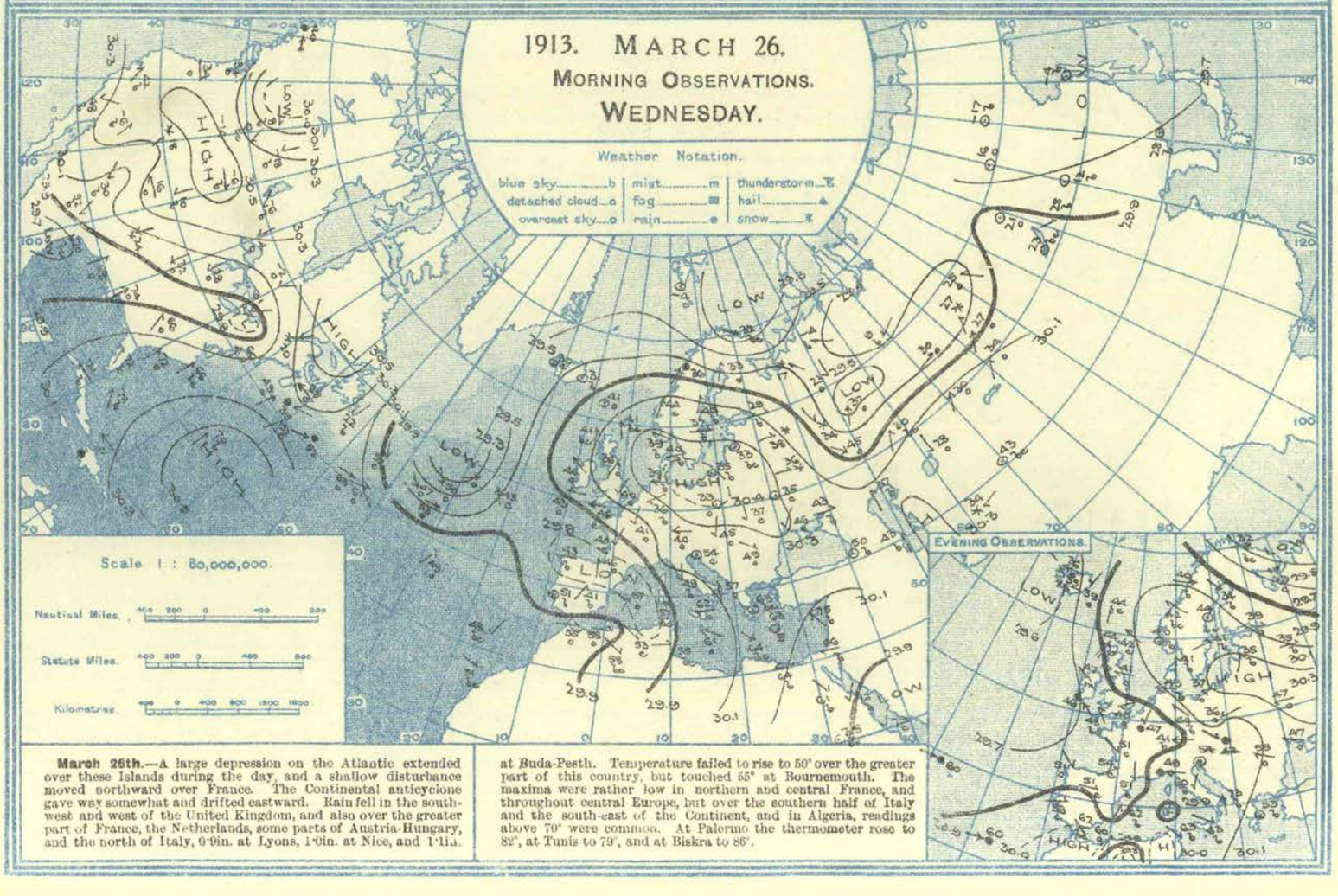
March 23rd.—A depression centred in the north-east of Britain travelled towards Norway during day and decreased in intensity. Rain fell in many parts of these Islands, and heavier quantities in the south and south-east of France; 1·4in. at Gap, 1·2in. at Marseilles, and 1·9 in. at Nice. Heavy rain was also general in Switzerland and the northern half of Italy, while rain or snow fell over northern Europe. In the north and north-east of the United Kingdom the temperature remained below 50°, but it rose to a little above that height in the south. In some parts of Hungary, south-eastern Europe, and the Mediterranean region the maxima were 70° or higher; 77° at Bucharest, and 80° at Palermo. Frost continued throughout in the far north of Norway.



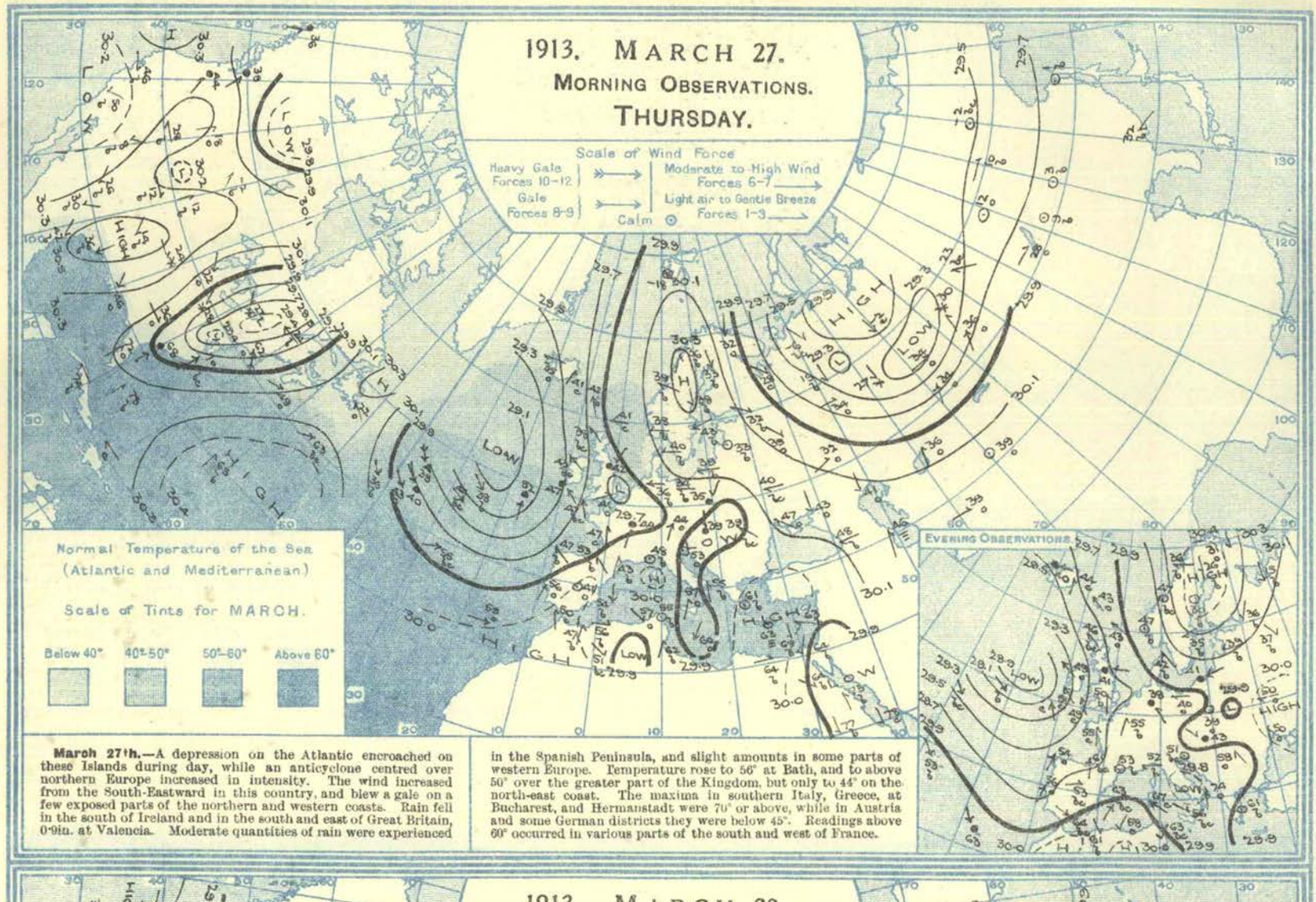
March 24th.—A general movement eastward of the high and low pressure systems occurred during the day over the European area, and the distribution over the United Kingdom became anti-cyclonic. Temperature remained below 50° in most parts of these Islands and at some stations in Central Europe, but rose to 70° at Buda-Pesth and Lemberg, and to 79° at Bucharest. Maxima between 60° and 70° were common in the Mediterranean region, but at Lisbon there was no higher reading than 59°. Rain fell in Germany, Austria, and Switzerland, and also in a few French localities, and rain or snow in Poland and Russia; 0·6in. at Breslau, 0·8 in. at Munich, and 0·7 in. at Warsaw.



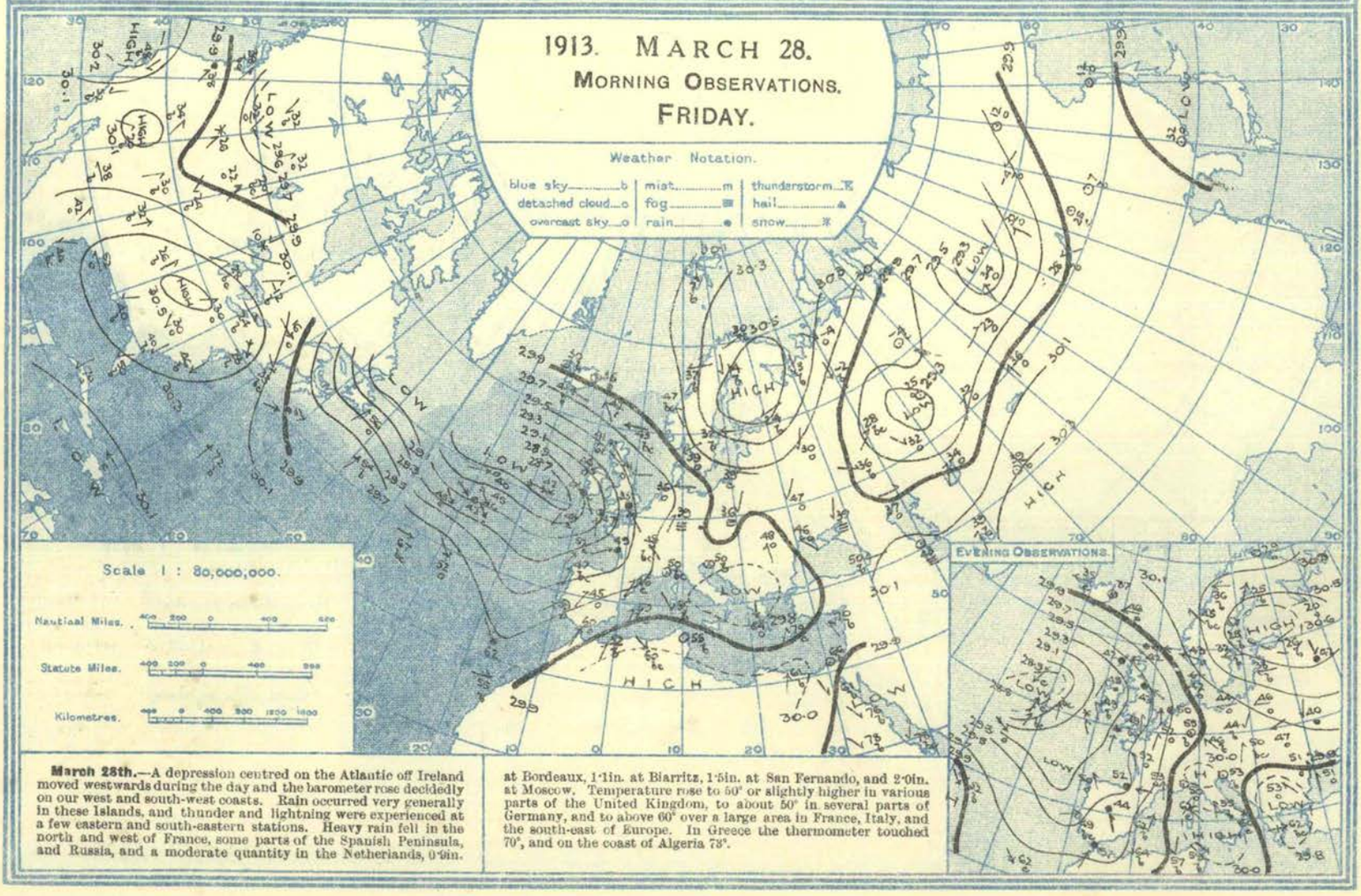
March 25th.—An anticyclone over England and the North Sea extended eastward and increased in intensity during day. Heavy rain fell in the south of France and the Spanish Peninsula, and smaller quantities in Brittany and Algeria. At Perpignan there was 1·1in., and at Alicante 1·9in. At Bucharest, temperature rose to 79°, at Hermanstadt to 70°, and at some Algerian stations to a little above 70°, but generally the maxima were much lower. Below 60° in most French districts, and below 55° in many places, and also in central Europe and the United Kingdom. At several stations in these Islands the thermometer rose no higher than 45°.



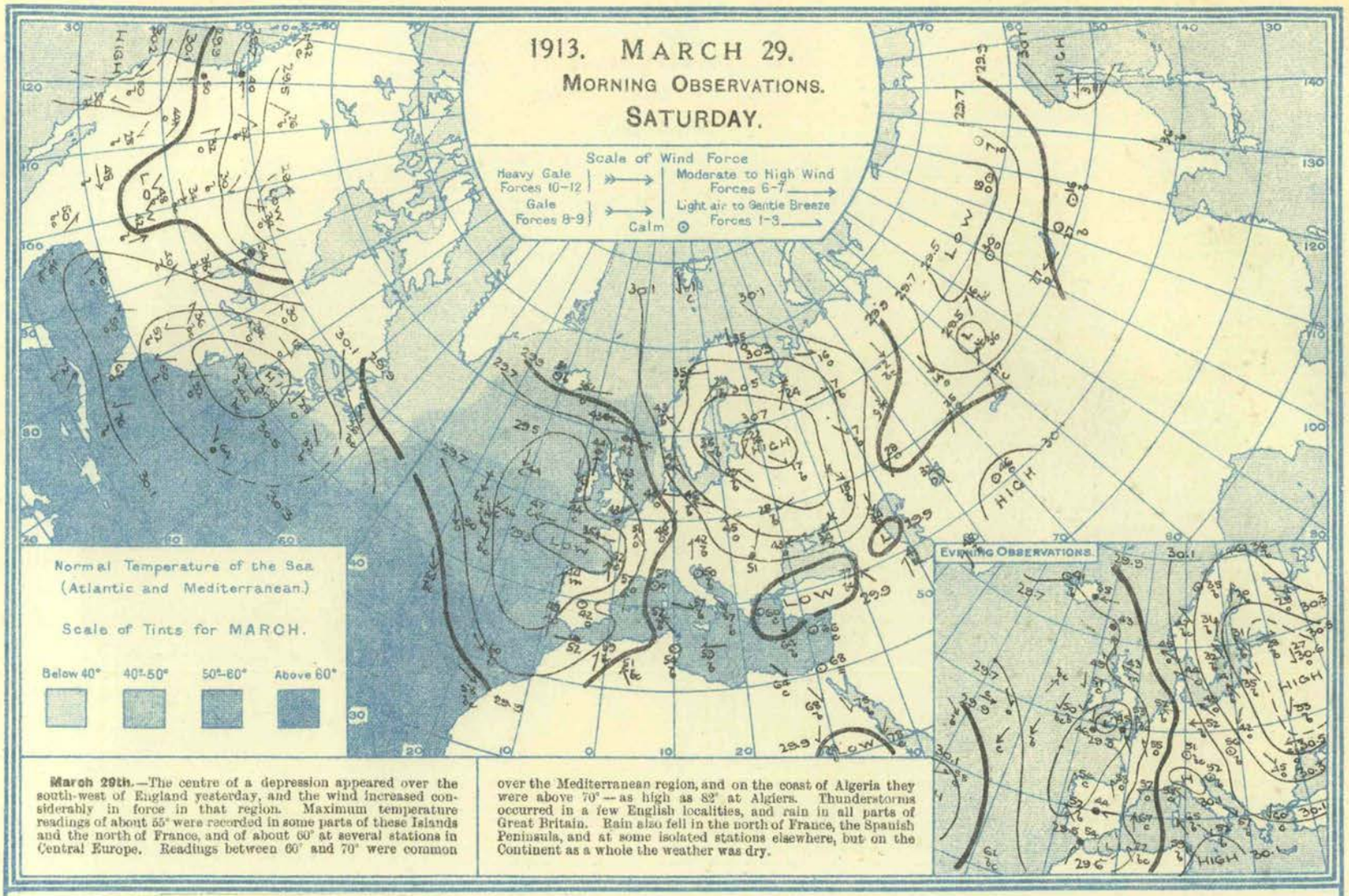
March 26th.—A large depression on the Atlantic extended over these Islands during the day, and a shallow disturbance moved northward over France. The Continental anticyclone gave way somewhat and drifted eastward. Rain fell in the south-west and west of the United Kingdom, and also over the greater part of France, the Netherlands, some parts of Austria-Hungary, and the north of Italy, 0·9in. at Lyons, 1·0in. at Nice, and 1·1in. at Buda-Pesth. Temperature failed to rise to 50° over the greater part of this country, but touched 55° at Bournemouth. The maxima were rather low in northern and central France, and throughout central Europe, but over the southern half of Italy and the south-east of the Continent, and in Algeria, readings above 70° were common. At Palermo the thermometer rose to 82°, at Tunis to 79°, and at Biskra to 86°.



March 27th.—A depression on the Atlantic encroached on these Islands during day, while an anticyclone centred over northern Europe increased in intensity. The wind increased from the South-Eastward in this country, and blew a gale on a few exposed parts of the northern and western coasts. Rain fell in the south of Ireland and in the south and east of Great Britain, 0·9in. at Valencia. Moderate quantities of rain were experienced in the Spanish Peninsula, and slight amounts in some parts of western Europe. Temperature rose to 56° at Bath, and to above 50° over the greater part of the Kingdom, but only to 44° on the north-east coast. The maxima in southern Italy, Greece, at Bucharest, and Hermanstadt were 70° or above, while in Austria and some German districts they were below 45°. Readings above 60° occurred in various parts of the south and west of France.

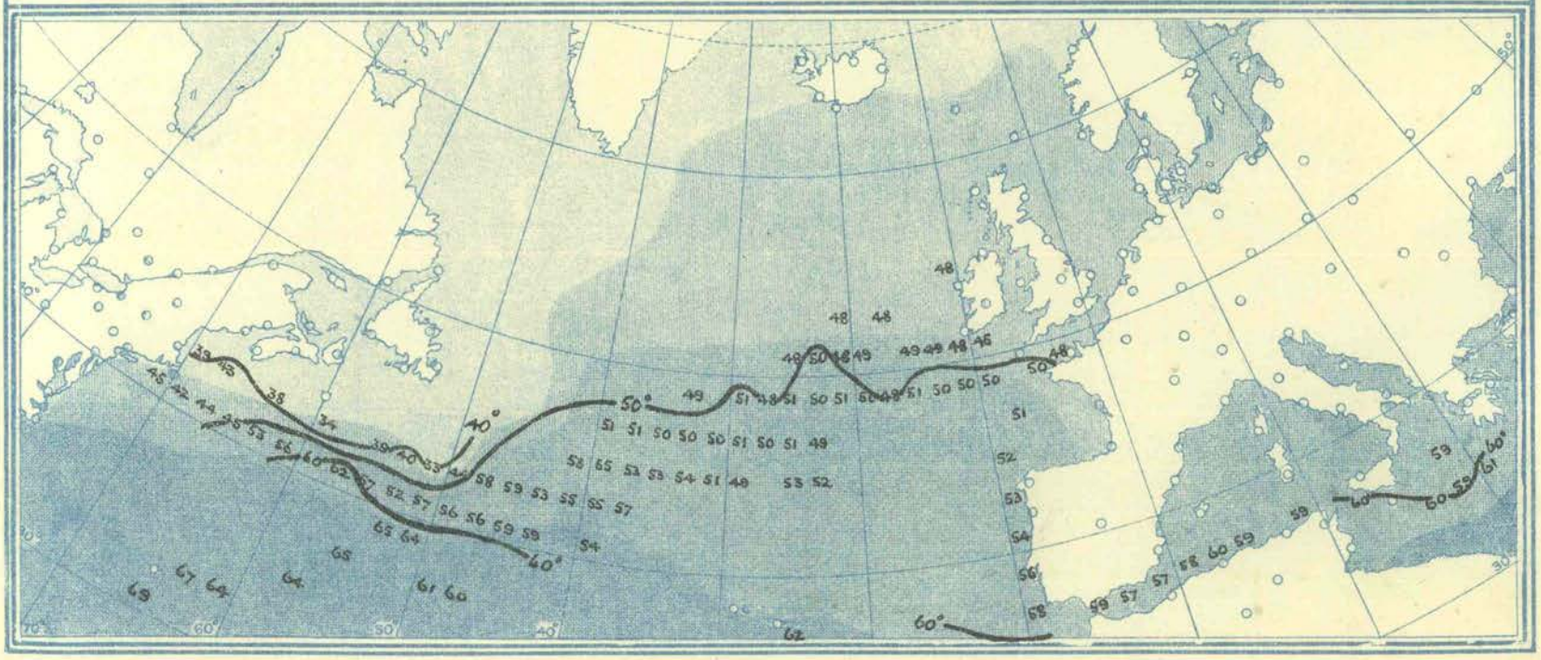


March 28th.—A depression centred on the Atlantic off Ireland moved westwards during the day and the barometer rose decidedly on our west and south-west coasts. Rain occurred very generally in these Islands, and thunder and lightning were experienced at a few eastern and south-eastern stations. Heavy rain fell in the north and west of France, some parts of the Spanish Peninsula, and Russia, and a moderate quantity in the Netherlands, 0·9in. at Bordeaux, 1·1in. at Biarritz, 1·5in. at San Fernando, and 2·0in. at Moscow. Temperature rose to 50° or slightly higher in various parts of the United Kingdom, to about 50° in several parts of Germany, and to above 60° over a large area in France, Italy, and the south-east of Europe. In Greece the thermometer touched 70°, and on the coast of Algeria 73°.



March 29th.—The centre of a depression appeared over the south-west of England yesterday, and the wind increased considerably in force in that region. Maximum temperature readings of about 55° were recorded in some parts of these Islands and the north of France, and of about 60° at several stations in Central Europe. Readings between 60° and 70° were common over the Mediterranean region, and on the coast of Algeria they were above 70°—as high as 82° at Algiers. Thunderstorms occurred in a few English localities, and rain in all parts of Great Britain. Rain also fell in the north of France, the Spanish Peninsula, and at some isolated stations elsewhere, but on the Continent as a whole the weather was dry.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 29TH. MARCH, 1913.



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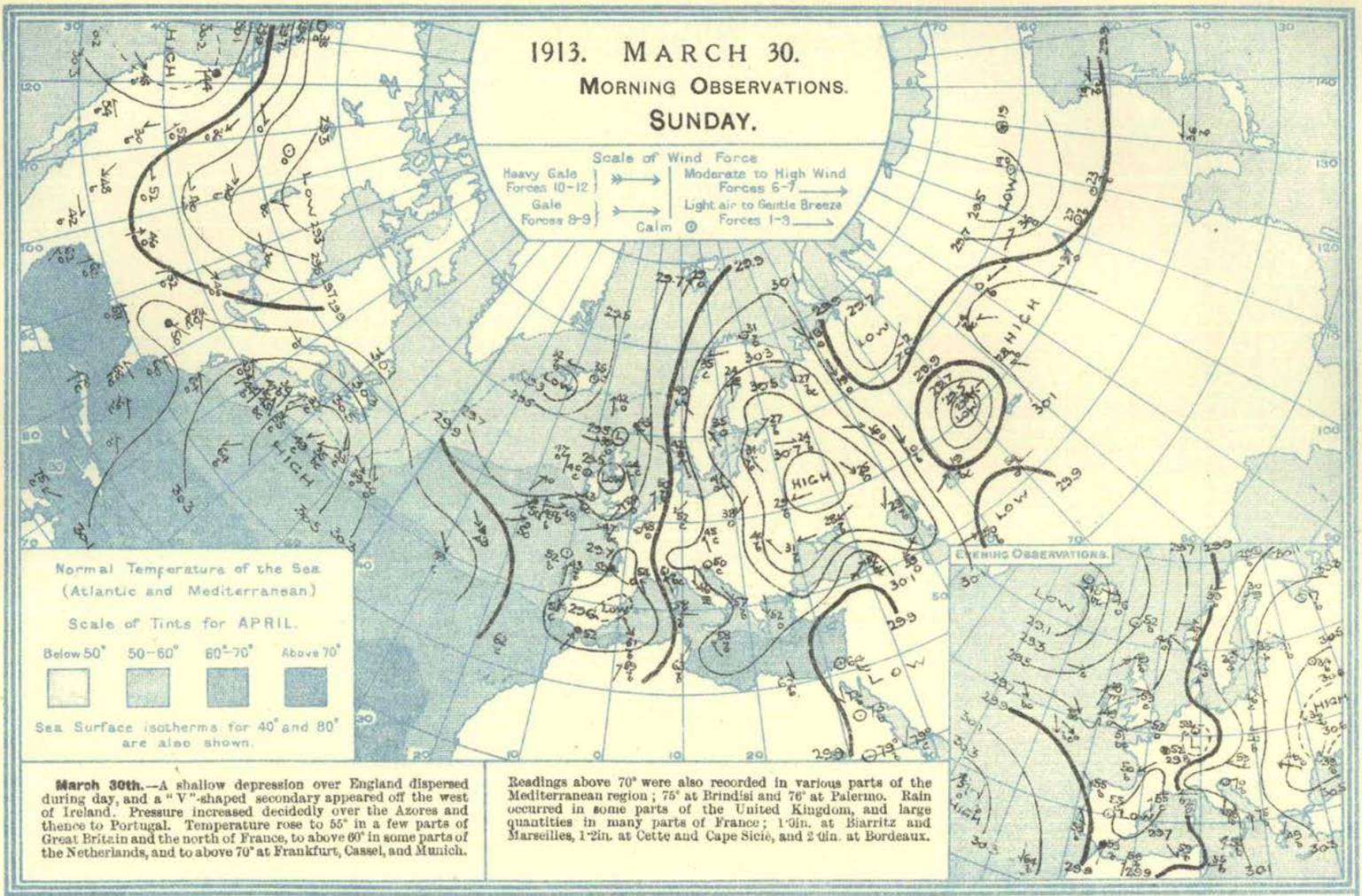
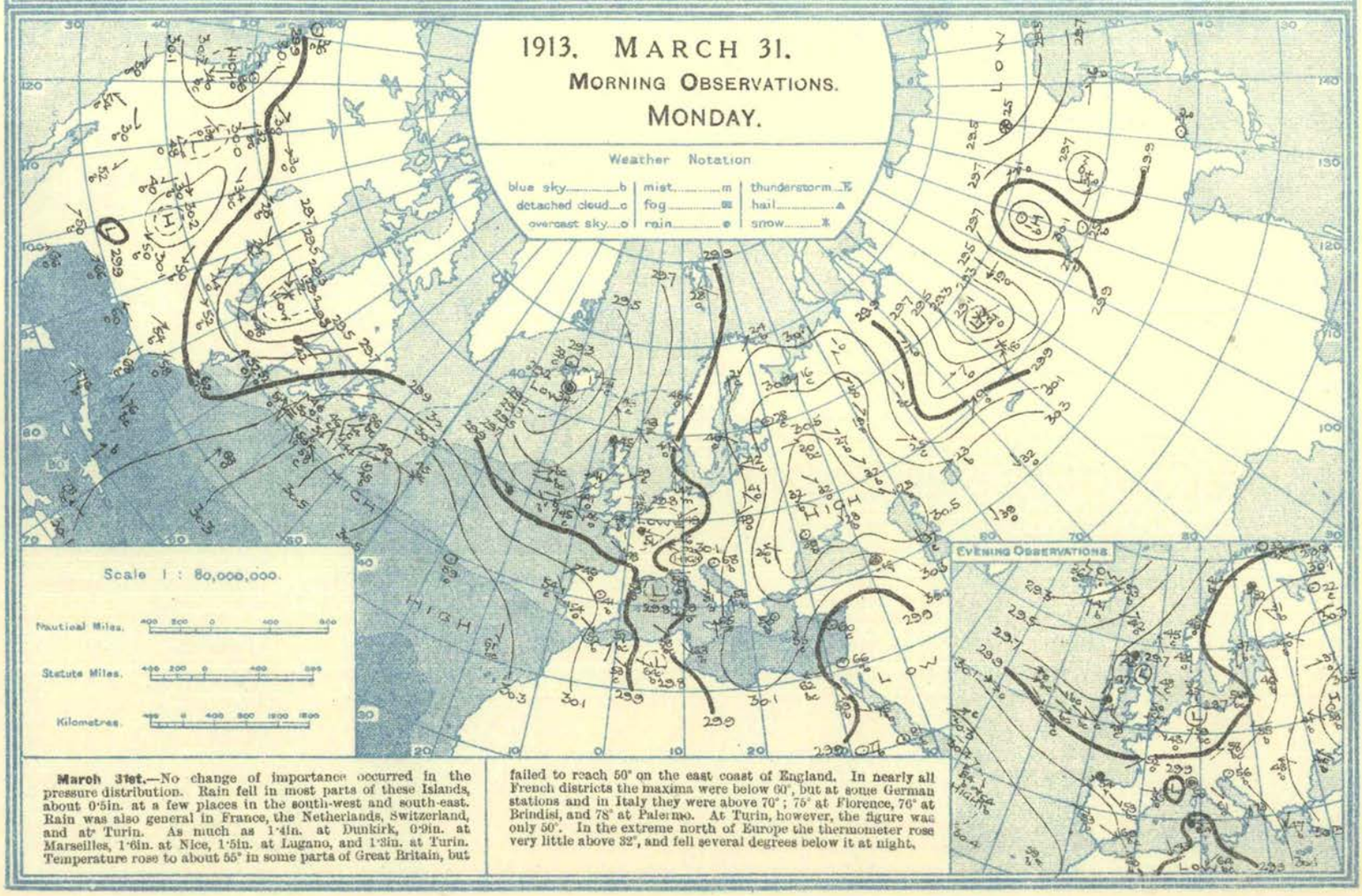
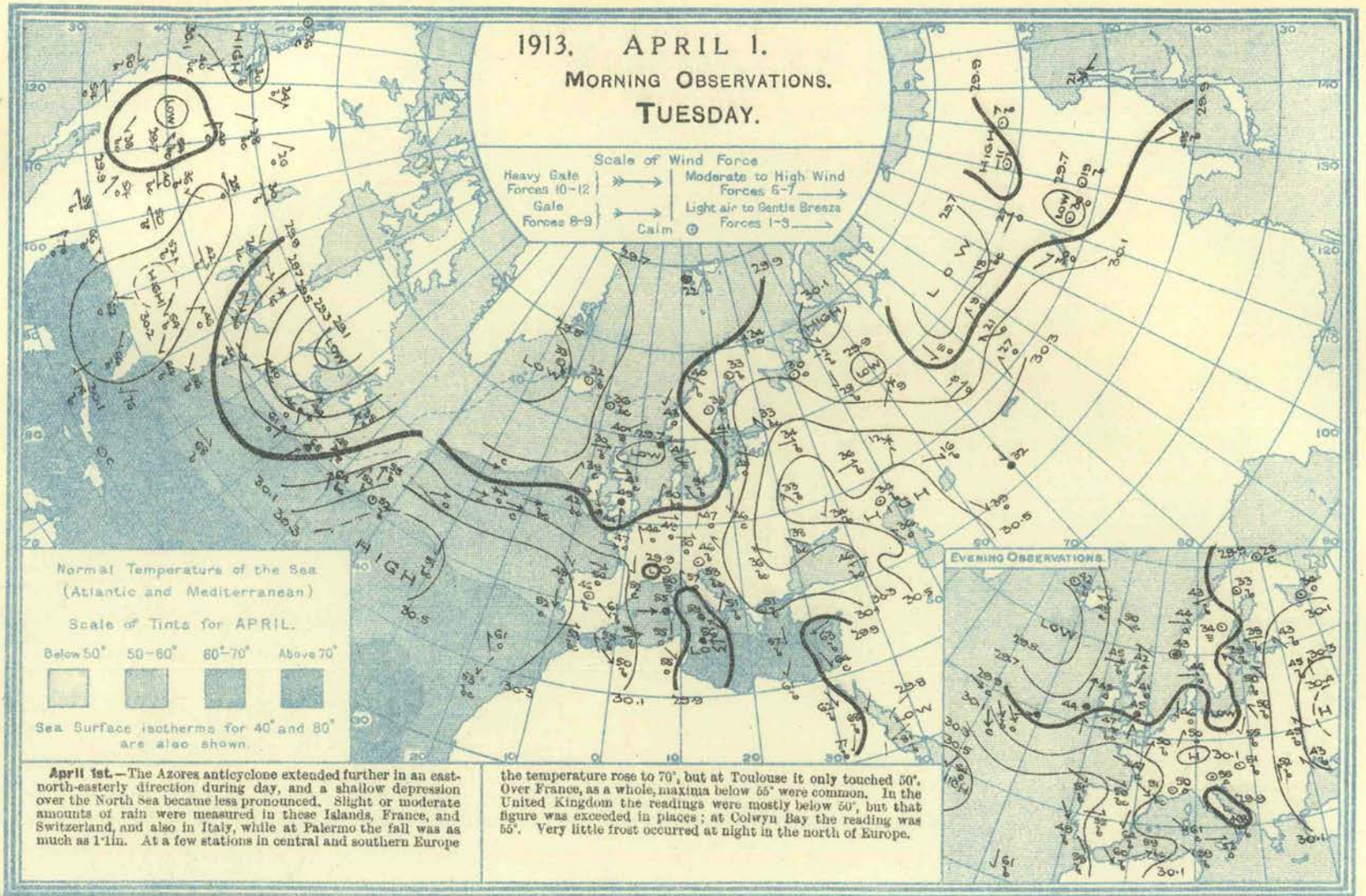


March 30th.—A shallow depression over England dispersed during day, and a "V"-shaped secondary appeared off the west of Ireland. Pressure increased decidedly over the Azores and thence to Portugal. Temperature rose to 55° in a few parts of Great Britain and the north of France, to above 60° in some parts of the Netherlands, and to above 70° at Frankfurt, Cassel, and Munich.

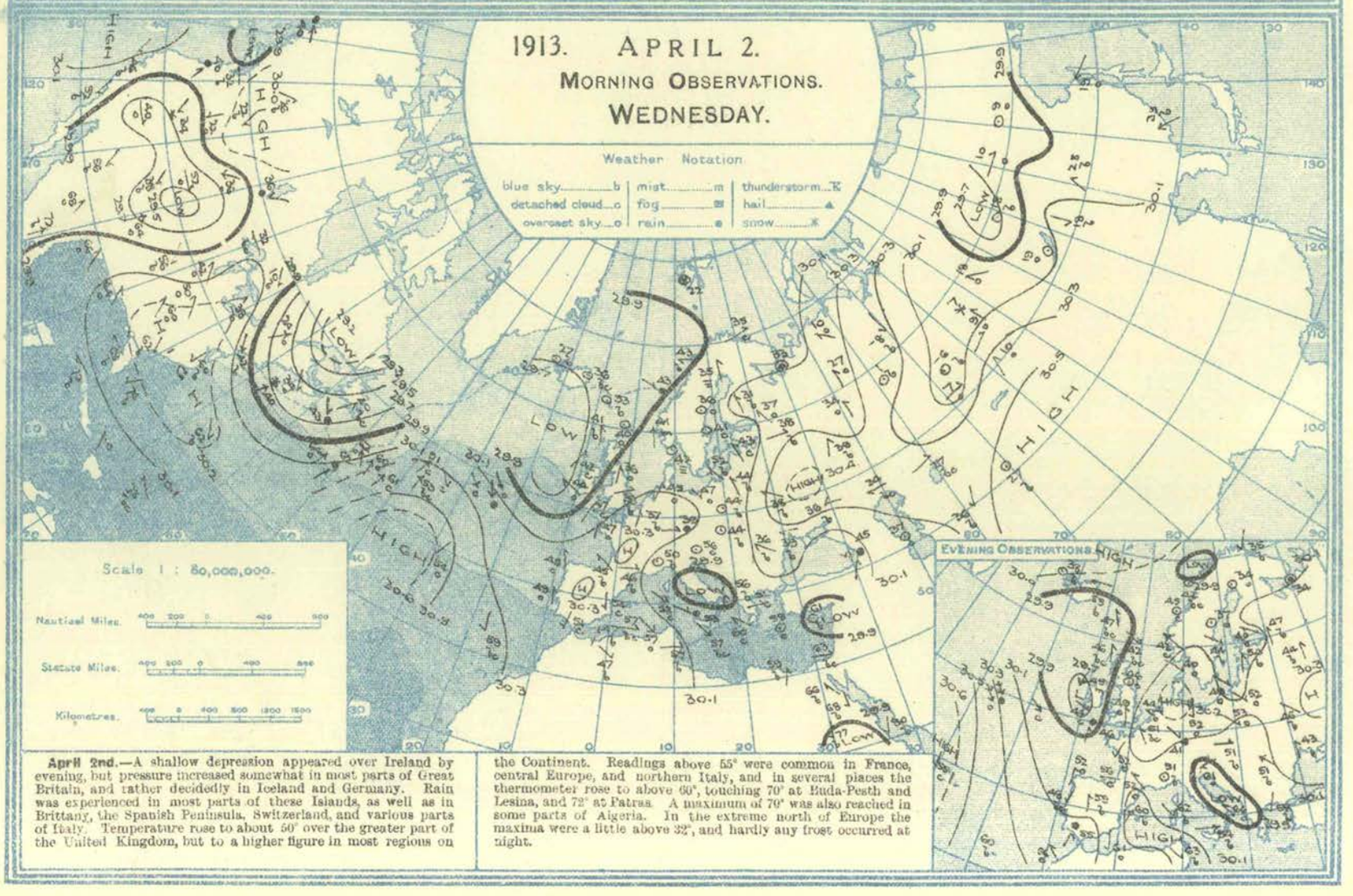
Readings above 70° were also recorded in various parts of the Mediterranean region; 75° at Brindisi and 76° at Palermo. Rain occurred in some parts of the United Kingdom, and large quantities in many parts of France; 1·0in. at Biarritz and Marseilles, 1·2in. at Cette and Cape Sicie, and 2·0in. at Bordeaux.



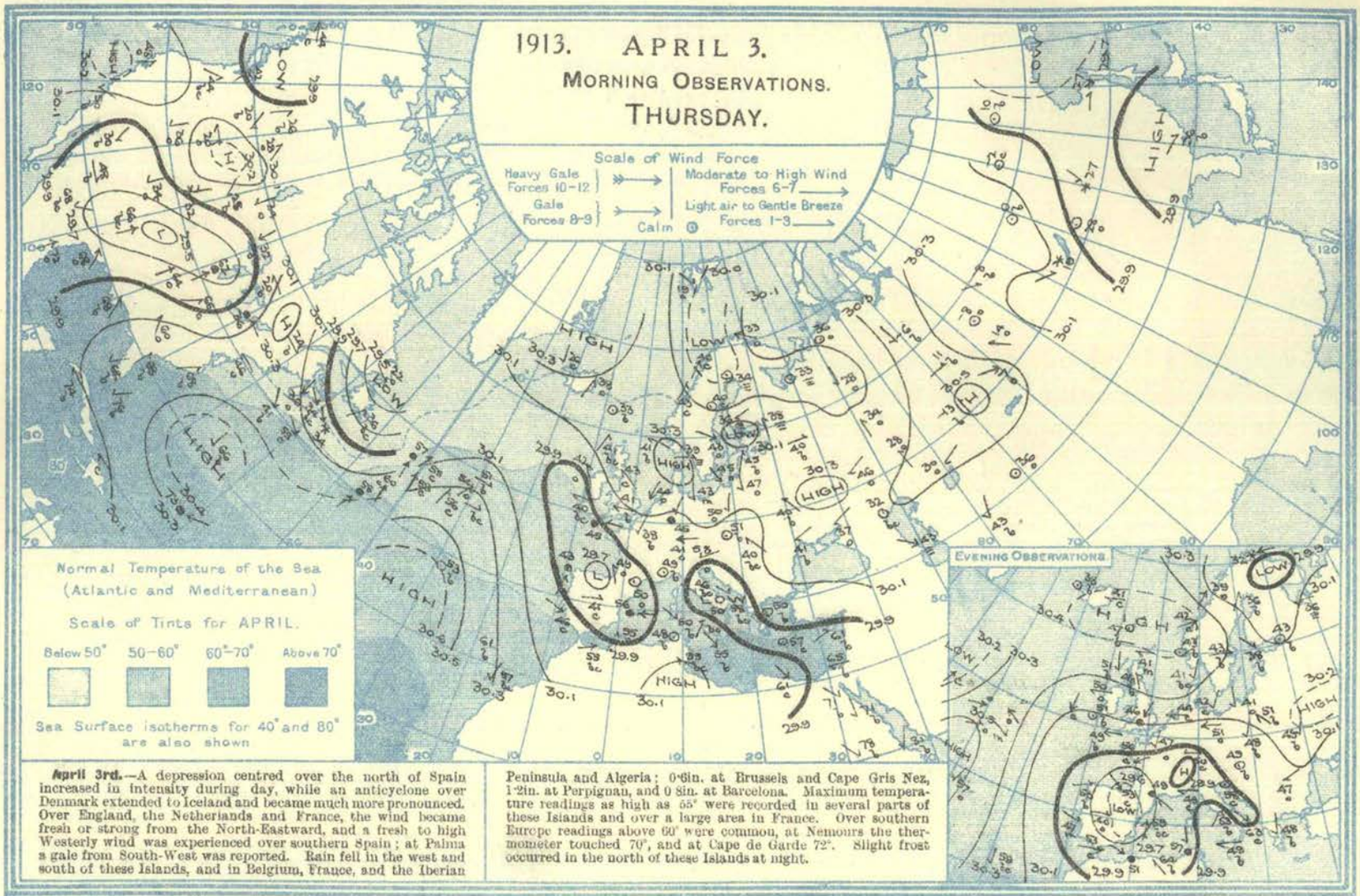
March 31st.—No change of importance occurred in the pressure distribution. Rain fell in most parts of these Islands, about 0·5in. at a few places in the south-west and south-east. Rain was also general in France, the Netherlands, Switzerland, and at Turin. As much as 1·4in. at Dunkirk, 0·9in. at Marseilles, 1·6in. at Nice, 1·5in. at Lugano, and 1·3in. at Turin. Temperature rose to about 55° in some parts of Great Britain, but failed to reach 50° on the east coast of England. In nearly all French districts the maxima were below 60°, but at some German stations and in Italy they were above 70°; 75° at Florence, 76° at Brindisi, and 78° at Palermo. At Turin, however, the figure was only 50°. In the extreme north of Europe the thermometer rose very little above 32°, and fell several degrees below it at night.



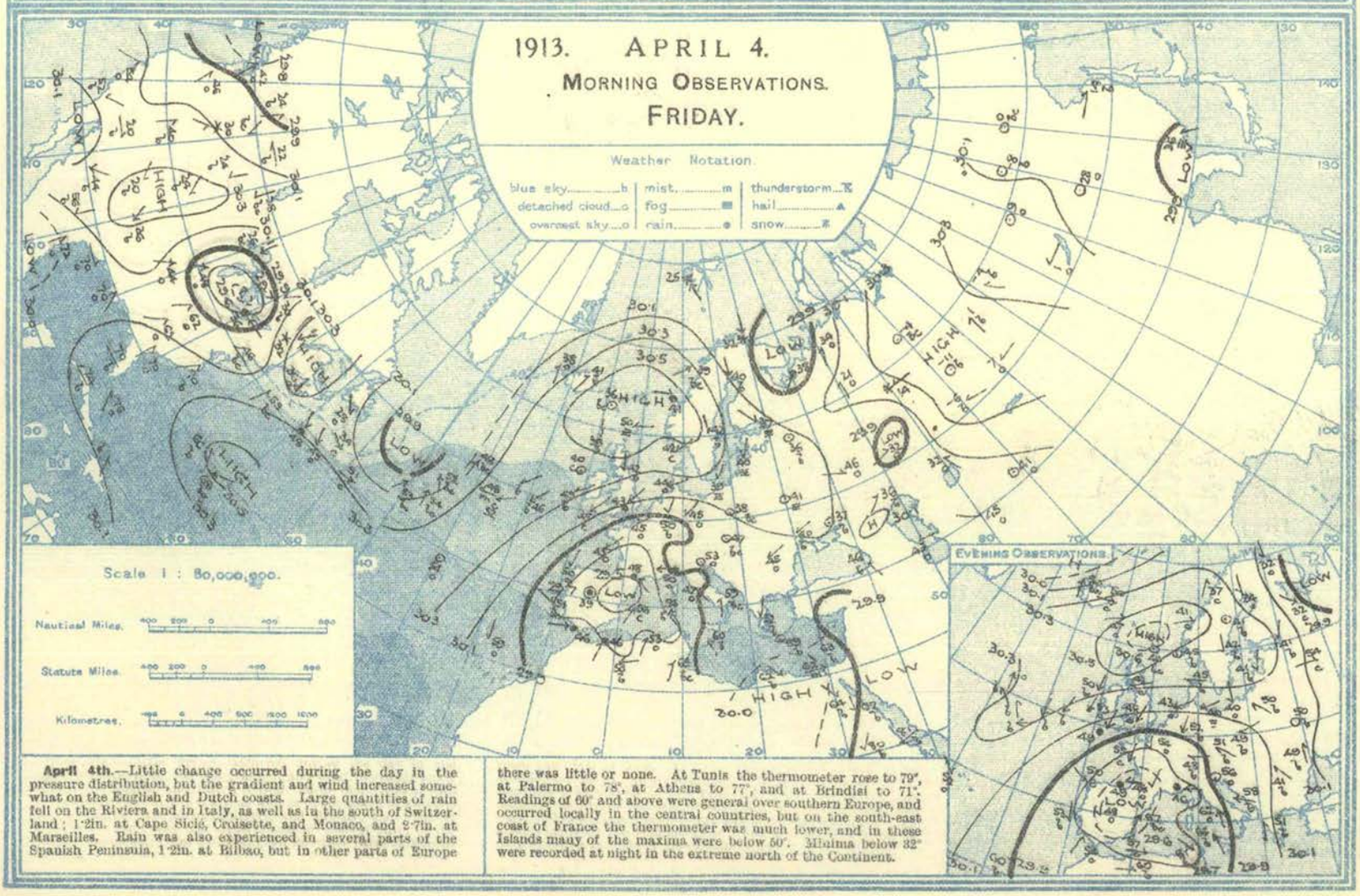
April 1st.—The Azores anticyclone extended further in an east-north-easterly direction during day, and a shallow depression over the North Sea became less pronounced. Slight or moderate amounts of rain were measured in these Islands, France, and Switzerland, and also in Italy, while at Palermo the fall was as much as 1·1in. At a few stations in central and southern Europe the temperature rose to 70°, but at Toulouse it only touched 50°. Over France, as a whole, maxima below 55° were common. In the United Kingdom the readings were mostly below 50°, but that figure was exceeded in places; at Colwyn Bay the reading was 55°. Very little frost occurred at night in the north of Europe.



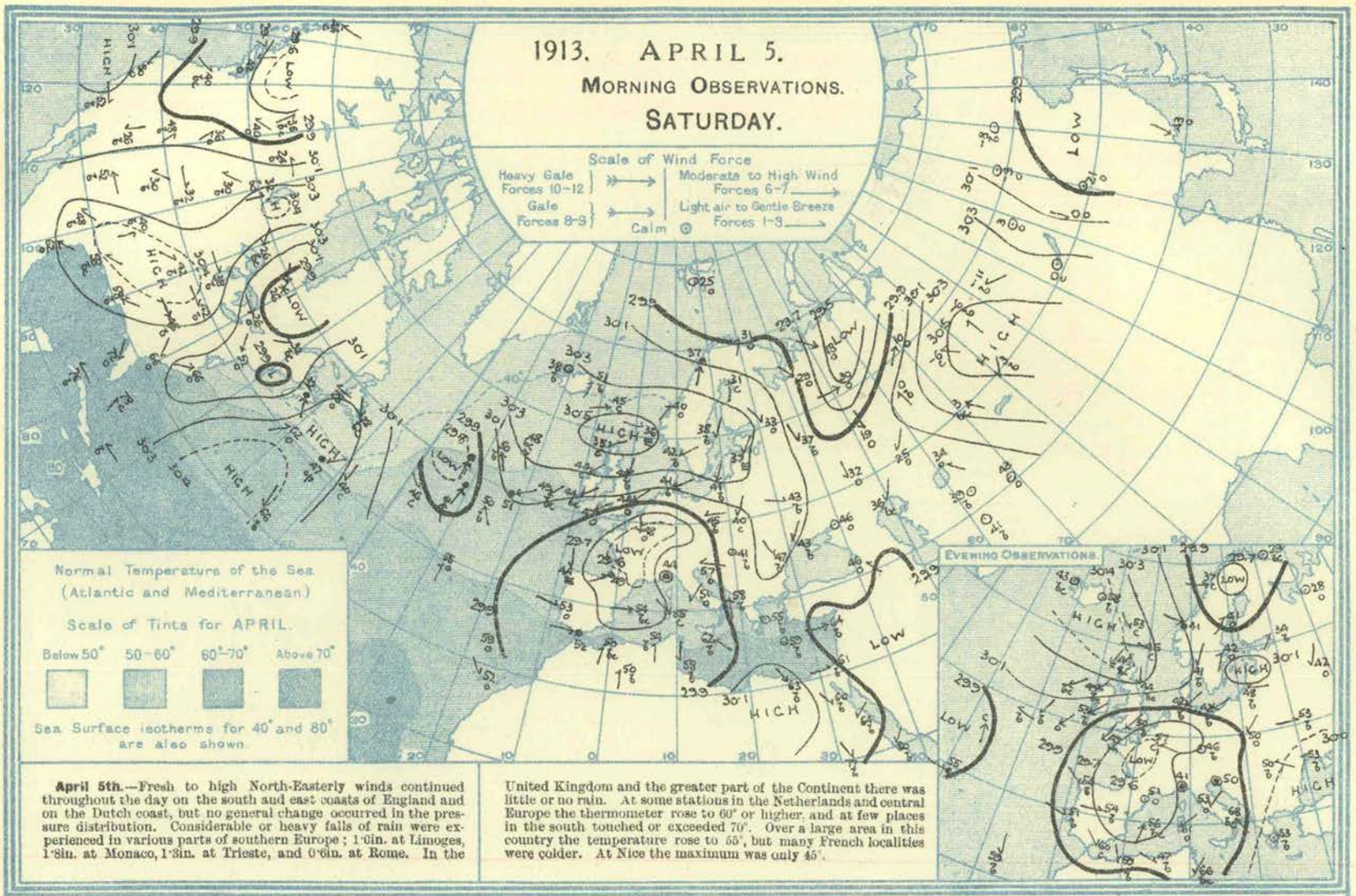
April 2nd.—A shallow depression appeared over Ireland by evening, but pressure increased somewhat in most parts of Great Britain, and rather decidedly in Iceland and Germany. Rain was experienced in most parts of these Islands, as well as in Brittany, the Spanish Peninsula, Switzerland, and various parts of Italy. Temperature rose to about 50° over the greater part of the United Kingdom, but to a higher figure in most regions on the Continent. Readings above 55° were common in France, central Europe, and northern Italy, and in several places the thermometer rose to above 60°, touching 70° at Buda-Pesth and Lesina, and 72° at Patras. A maximum of 70° was also reached in some parts of Algeria. In the extreme north of Europe the maxima were a little above 32°, and hardly any frost occurred at night.



April 3rd.—A depression centred over the north of Spain increased in intensity during day, while an anticyclone over Denmark extended to Iceland and became much more pronounced. Over England, the Netherlands and France, the wind became fresh or strong from the North-Eastward, and a fresh to high Westerly wind was experienced over southern Spain; at Palma a gale from South-West was reported. Rain fell in the west and south of these Islands, and in Belgium, France, and the Iberian Peninsula and Algeria: 0·6in. at Brussels and Cape Gris Nez, 1·2in. at Perpignan, and 0·8in. at Barcelona. Maximum temperature readings as high as 55° were recorded in several parts of these Islands and over a large area in France. Over southern Europe readings above 60° were common, at Nemours the thermometer touched 70°, and at Cape de Garde 72°. Slight frost occurred in the north of these Islands at night.

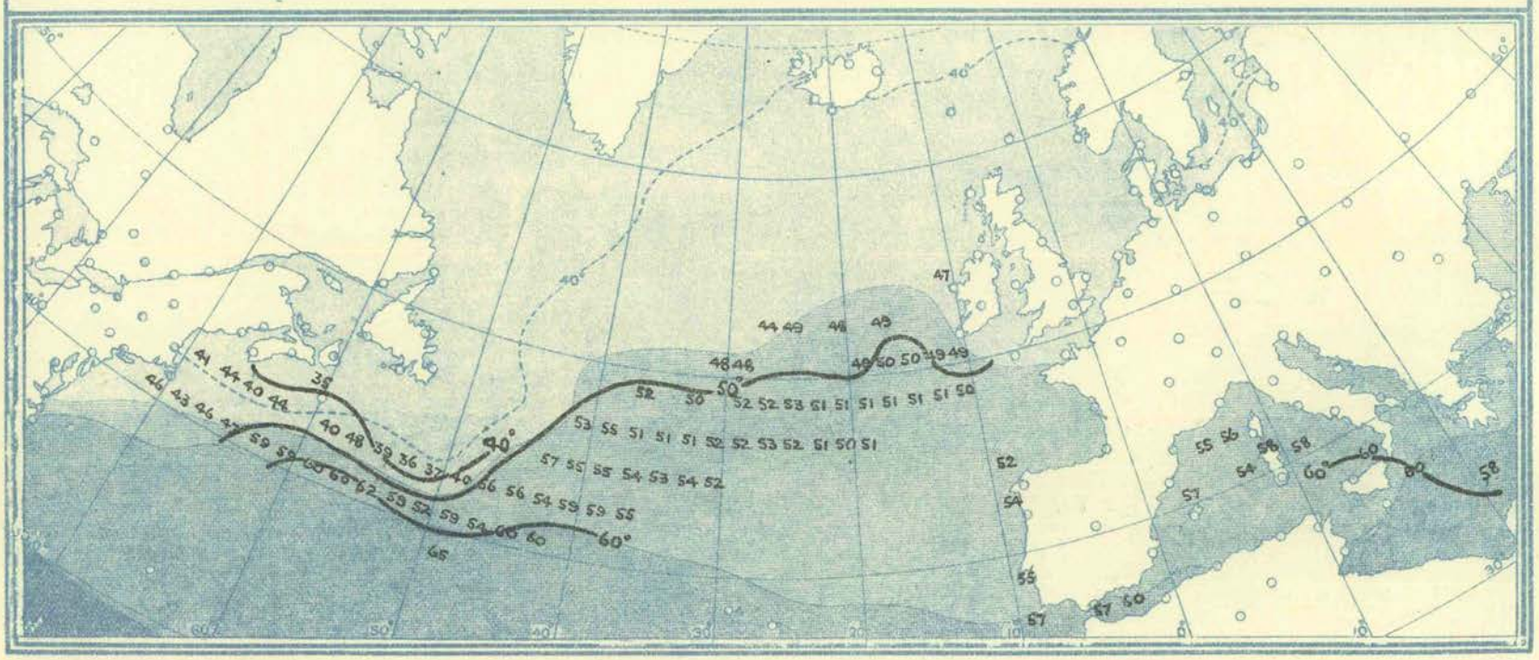


April 4th.—Little change occurred during the day in the pressure distribution, but the gradient and wind increased somewhat on the English and Dutch coasts. Large quantities of rain fell on the Riviera and in Italy, as well as in the south of Switzerland: 1·2in. at Cape Sicié, Croisette, and Monaco, and 2·7in. at Marseilles. Rain was also experienced in several parts of the Spanish Peninsula, 1·2in. at Bilbao, but in other parts of Europe there was little or none. At Tunis the thermometer rose to 79°, at Palermo to 78°, at Athens to 77°, and at Brindisi to 71°. Readings of 60° and above were general over southern Europe, and occurred locally in the central countries, but on the south-east coast of France the thermometer was much lower, and in these Islands many of the maxima were below 50°. Minima below 32° were recorded at night in the extreme north of the Continent.



April 5th.—Fresh to high North-Easterly winds continued throughout the day on the south and east coasts of England and on the Dutch coast, but no general change occurred in the pressure distribution. Considerable or heavy falls of rain were experienced in various parts of southern Europe; 1·0in. at Limoges, 1·8in. at Monaco, 1·3in. at Trieste, and 0·6in. at Rome. In the United Kingdom and the greater part of the Continent there was little or no rain. At some stations in the Netherlands and central Europe the thermometer rose to 60° or higher, and at few places in the south touched or exceeded 70°. Over a large area in this country the temperature rose to 55°, but many French localities were colder. At Nice the maximum was only 45°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 5TH APRIL, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

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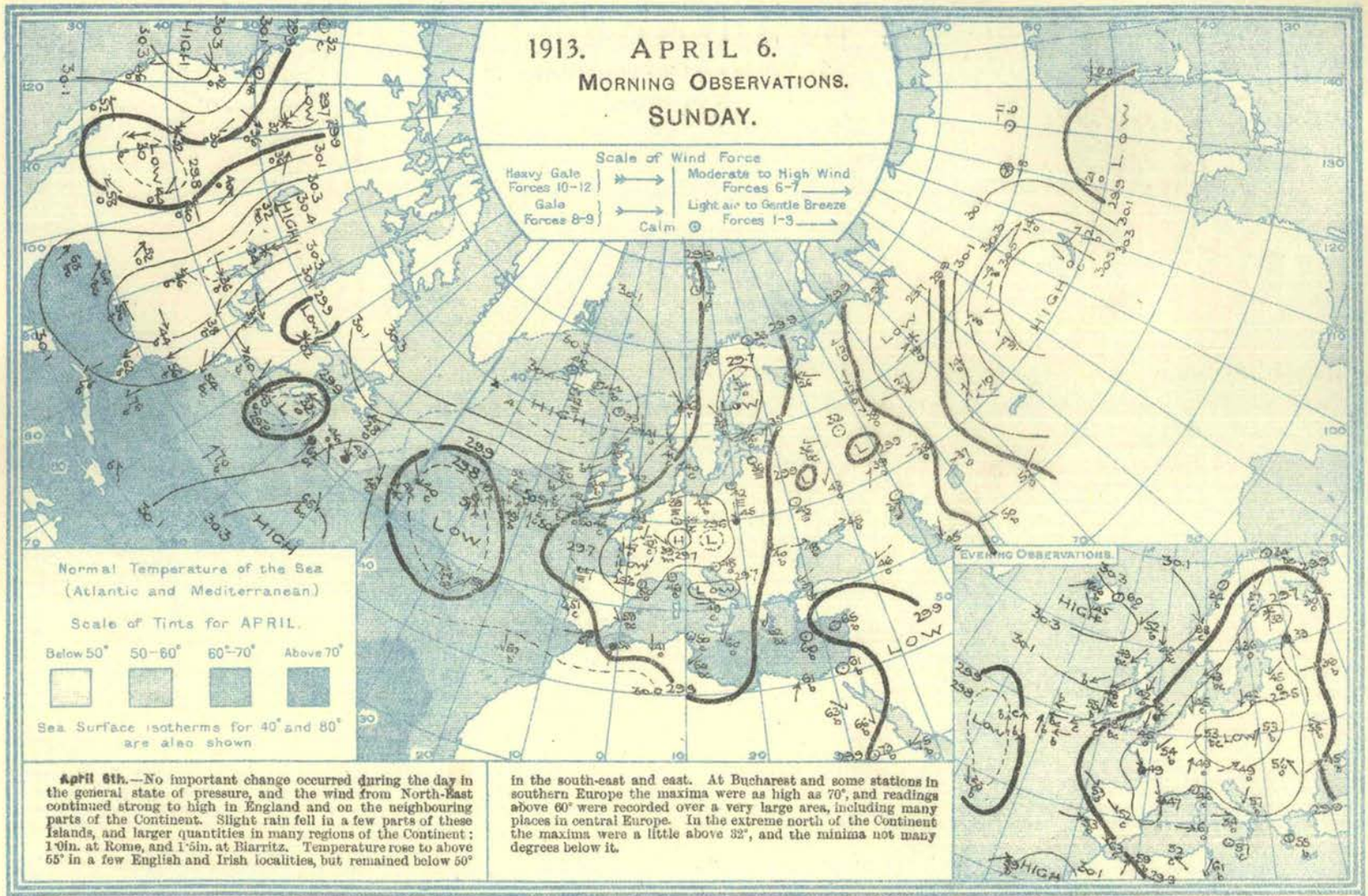
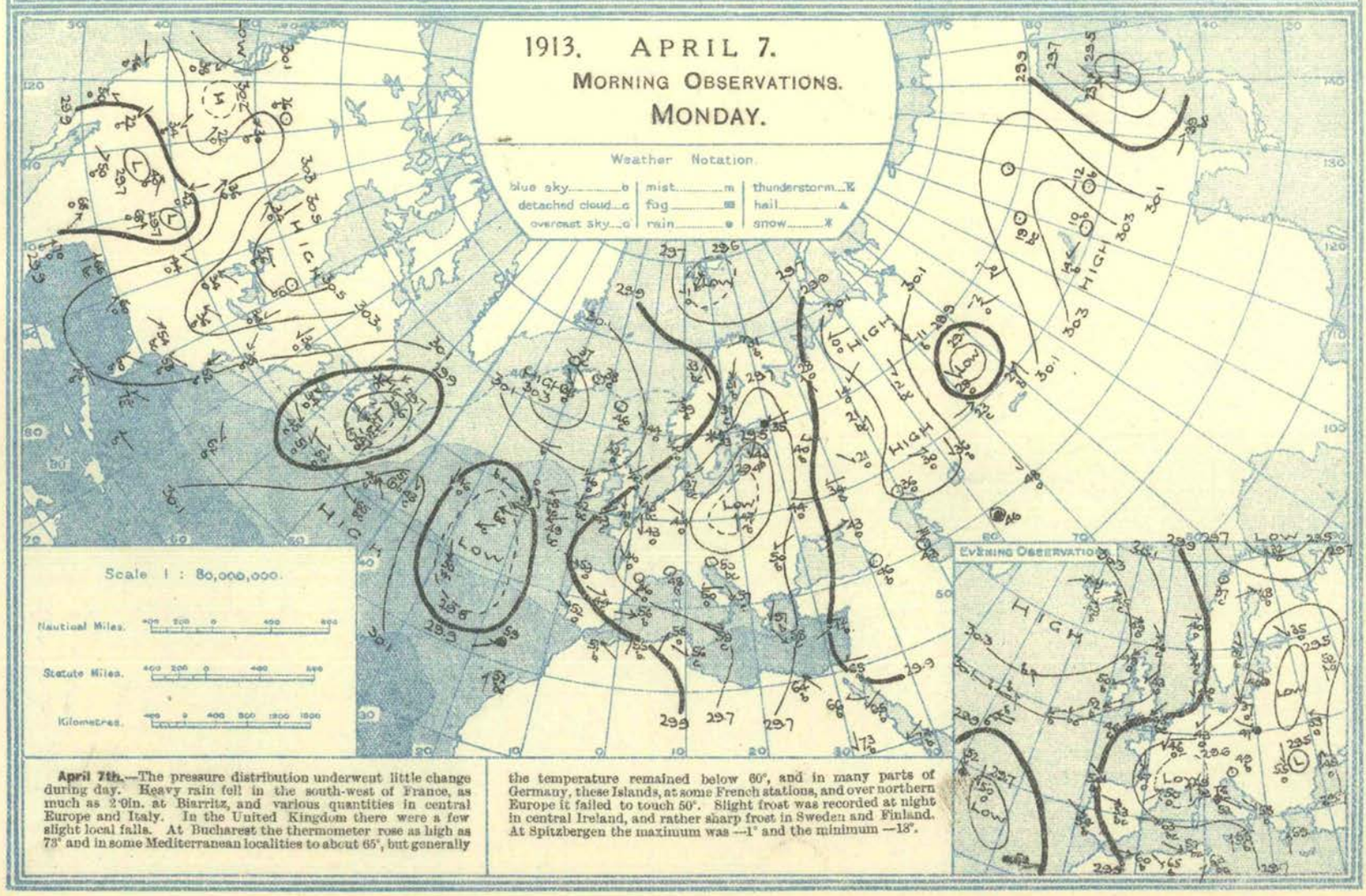
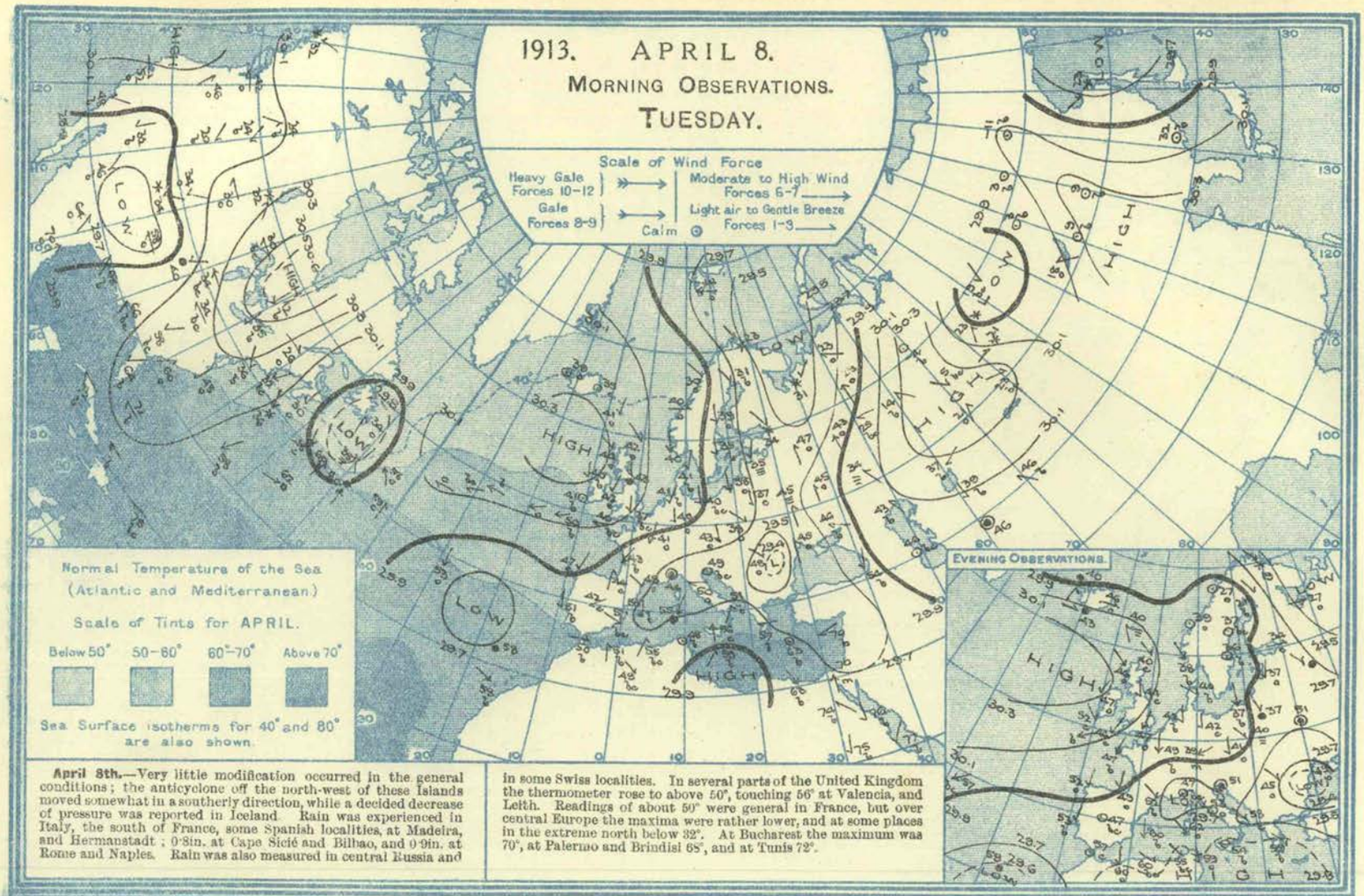


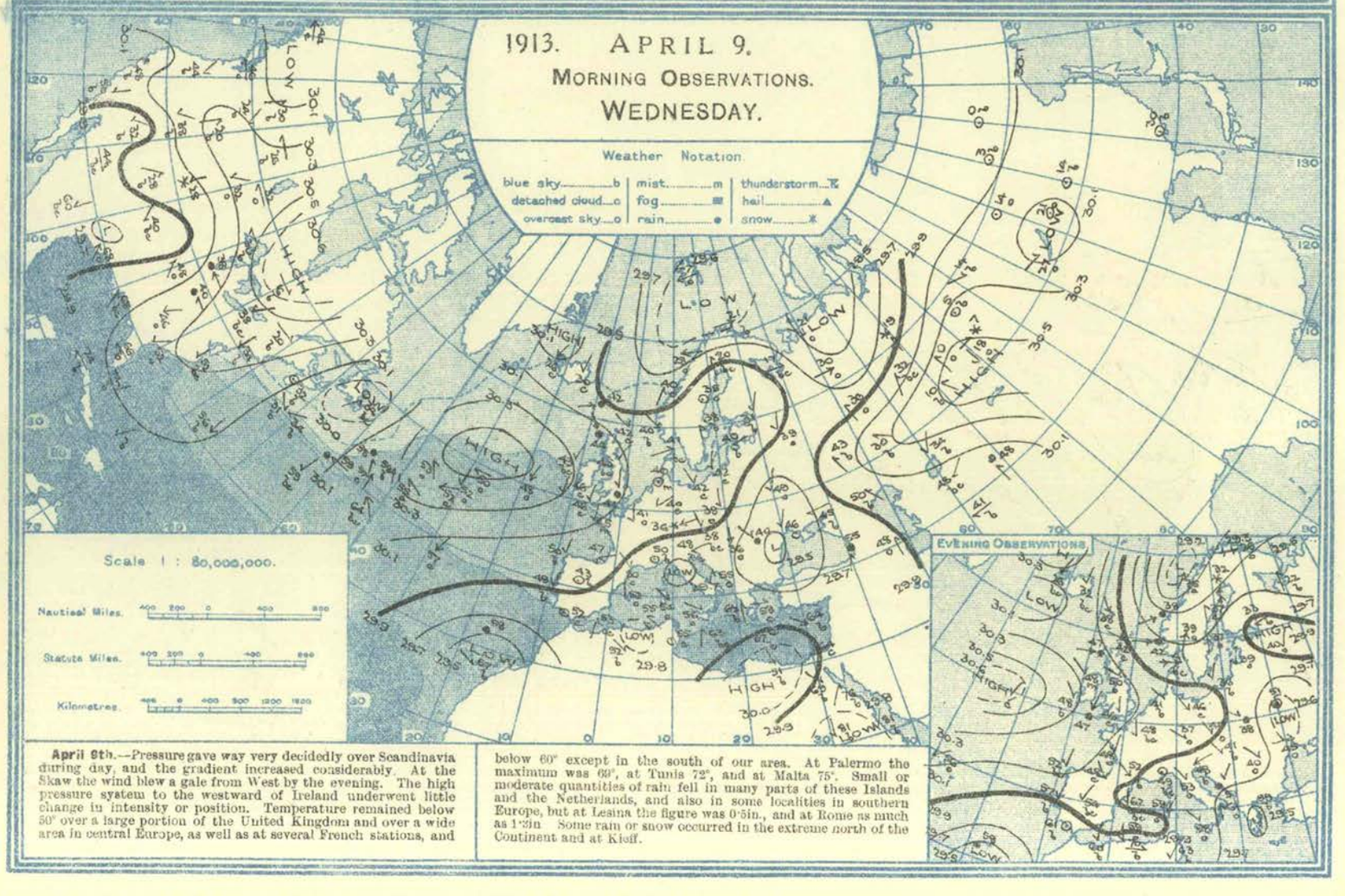
April 6th.—No important change occurred during the day in the general state of pressure, and the wind from North-East continued strong to high in England and on the neighbouring parts of the Continent. Slight rain fell in a few parts of these Islands, and larger quantities in many regions of the Continent; 1·0in. at Rome, and 1·5in. at Biarritz. Temperature rose to above 55° in a few English and Irish localities, but remained below 50° in the south-east and east. At Bucharest and some stations in southern Europe the maxima were as high as 70°, and readings above 60° were recorded over a very large area, including many places in central Europe. In the extreme north of the Continent the maxima were a little above 32°, and the minima not many degrees below it.



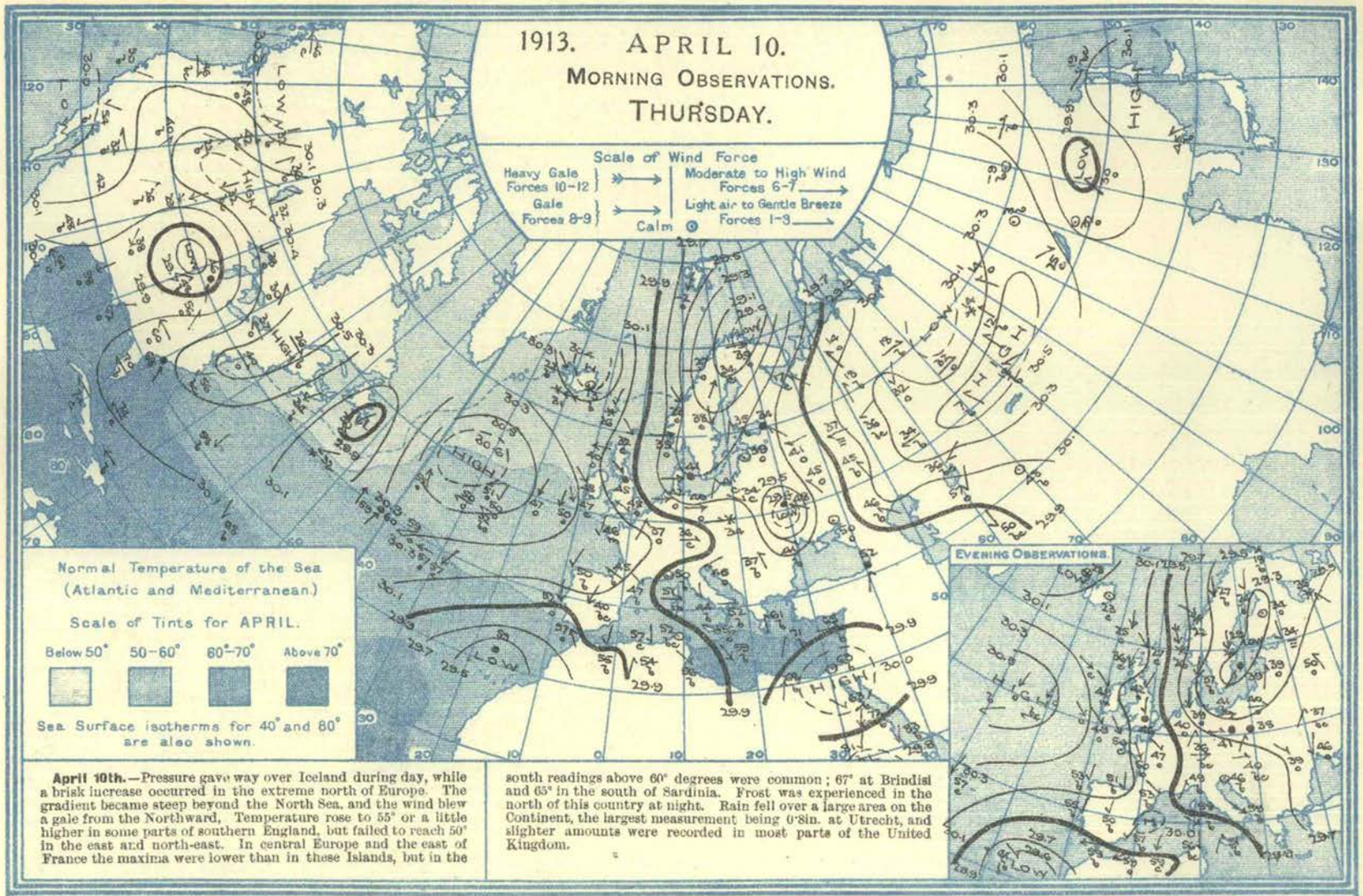
April 7th.—The pressure distribution underwent little change during day. Heavy rain fell in the south-west of France, as much as 2·0in. at Biarritz, and various quantities in central Europe and Italy. In the United Kingdom there were a few slight local falls. At Bucharest the thermometer rose as high as 73° and in some Mediterranean localities to about 65°, but generally the temperature remained below 60°, and in many parts of Germany, these Islands, at some French stations, and over northern Europe it failed to touch 50°. Slight frost was recorded at night in central Ireland, and rather sharp frost in Sweden and Finland. At Spitzbergen the maximum was —1° and the minimum —18°.



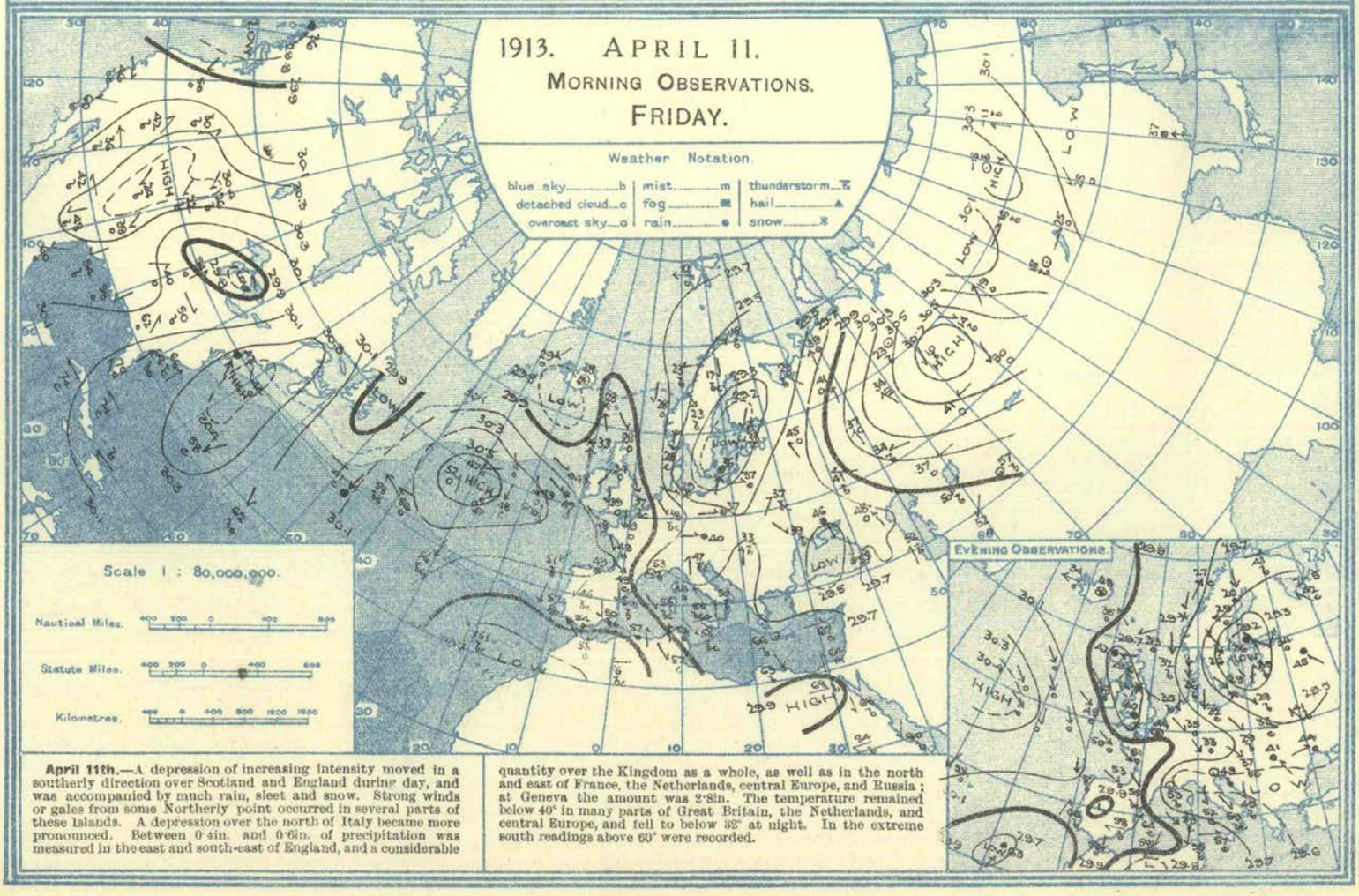
April 8th.—Very little modification occurred in the general conditions; the anticyclone off the north-west of these Islands moved somewhat in a southerly direction, while a decided decrease of pressure was reported in Iceland. Rain was experienced in Italy, the south of France, some Spanish localities, at Madeira, and Hermanstadt; 0·8in. at Cape Sicié and Bilbao, and 0·9in. at Rome and Naples. Rain was also measured in central Russia and in some Swiss localities. In several parts of the United Kingdom the thermometer rose to above 50°, touching 56° at Valencia, and Leith. Readings of about 50° were general in France, but over central Europe the maxima were rather lower, and at some places in the extreme north below 32°. At Bucharest the maximum was 70°, at Palermo and Brindisi 68°, and at Tunis 72°.



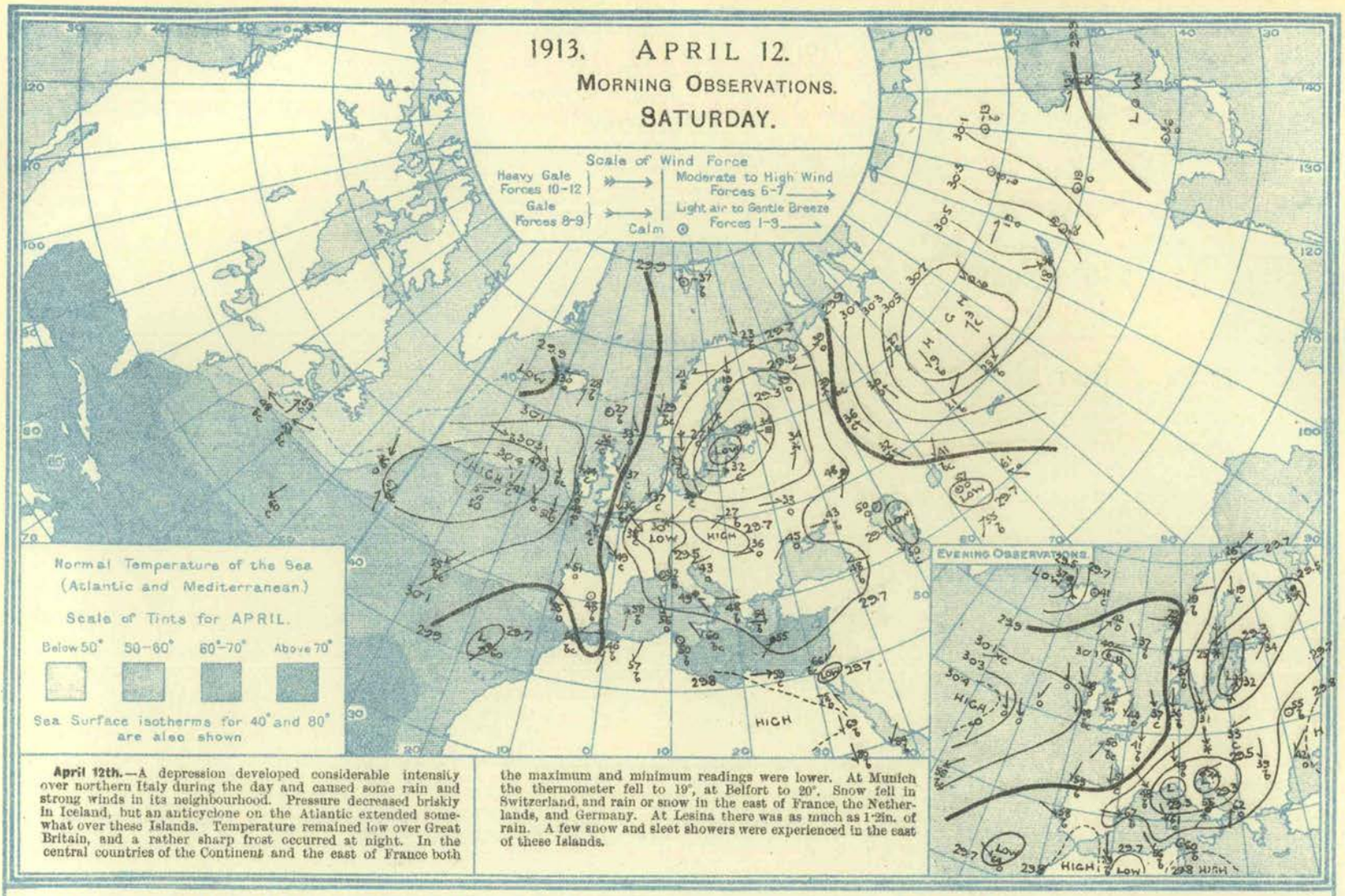
April 9th.—Pressure gave way very decidedly over Scandinavia during day, and the gradient increased considerably. At the Skaw the wind blew a gale from West by the evening. The high pressure system to the westward of Ireland underwent little change in intensity or position. Temperature remained below 50° over a large portion of the United Kingdom and over a wide area in central Europe, as well as at several French stations, and below 60° except in the south of our area. At Palermo the maximum was 69°, at Tunis 72°, and at Malta 75°. Small or moderate quantities of rain fell in many parts of these Islands and the Netherlands, and also in some localities in southern Europe, but at Lesina the figure was 0·5in., and at Rome as much as 1·3in. Some rain or snow occurred in the extreme north of the Continent and at Kieff.



April 10th.—Pressure gave way over Iceland during day, while a brisk increase occurred in the extreme north of Europe. The gradient became steep beyond the North Sea, and the wind blew a gale from the Northward. Temperature rose to 55° or a little higher in some parts of southern England, but failed to reach 50° in the east and north-east. In central Europe and the east of France the maxima were lower than in these Islands, but in the south readings above 60° degrees were common; 67° at Brindisi and 65° in the south of Sardinia. Frost was experienced in the north of this country at night. Rain fell over a large area on the Continent, the largest measurement being 0·8in. at Utrecht, and slighter amounts were recorded in most parts of the United Kingdom.

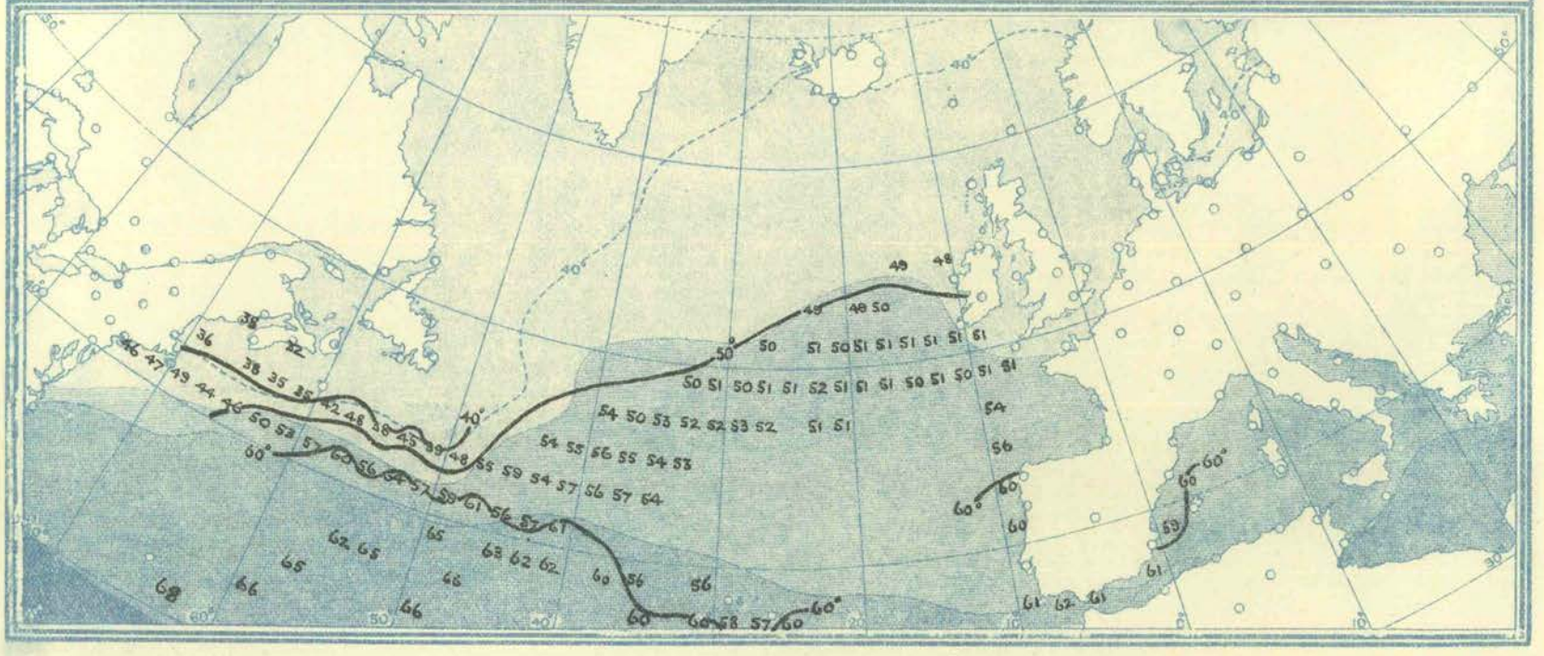


April 11th.—A depression of increasing intensity moved in a southerly direction over Scotland and England during day, and was accompanied by much rain, sleet and snow. Strong winds or gales from some Northerly point occurred in several parts of these Islands. A depression over the north of Italy became more pronounced. Between 0·4in. and 0·6in. of precipitation was measured in the east and south-east of England, and a considerable quantity over the Kingdom as a whole, as well as in the north and east of France, the Netherlands, central Europe, and Russia; at Geneva the amount was 2·8in. The temperature remained below 40° in many parts of Great Britain, the Netherlands, and central Europe, and fell to below 32° at night. In the extreme south readings above 60° were recorded.



April 12th.—A depression developed considerable intensity over northern Italy during the day and caused some rain and strong winds in its neighbourhood. Pressure decreased briskly in Iceland, but an anticyclone on the Atlantic extended somewhat over these Islands. Temperature remained low over Great Britain, and a rather sharp frost occurred at night. In the central countries of the Continent and the east of France both the maximum and minimum readings were lower. At Munich the thermometer fell to 19°, at Belfort to 20°. Snow fell in Switzerland, and rain or snow in the east of France, the Netherlands, and Germany. At Lesina there was as much as 1·2in. of rain. A few snow and sleet showers were experienced in the east of these Islands.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 12TH APRIL, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

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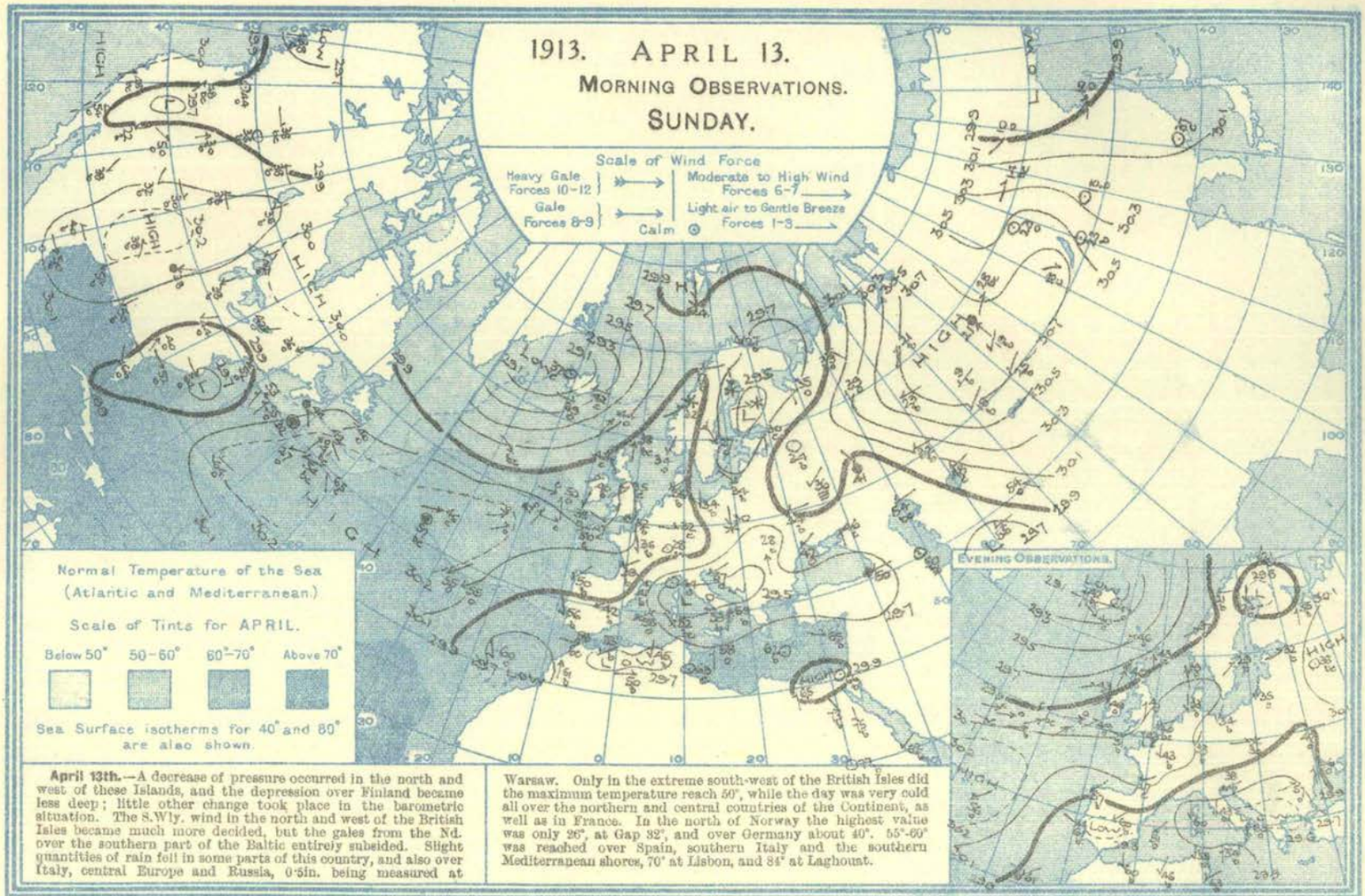
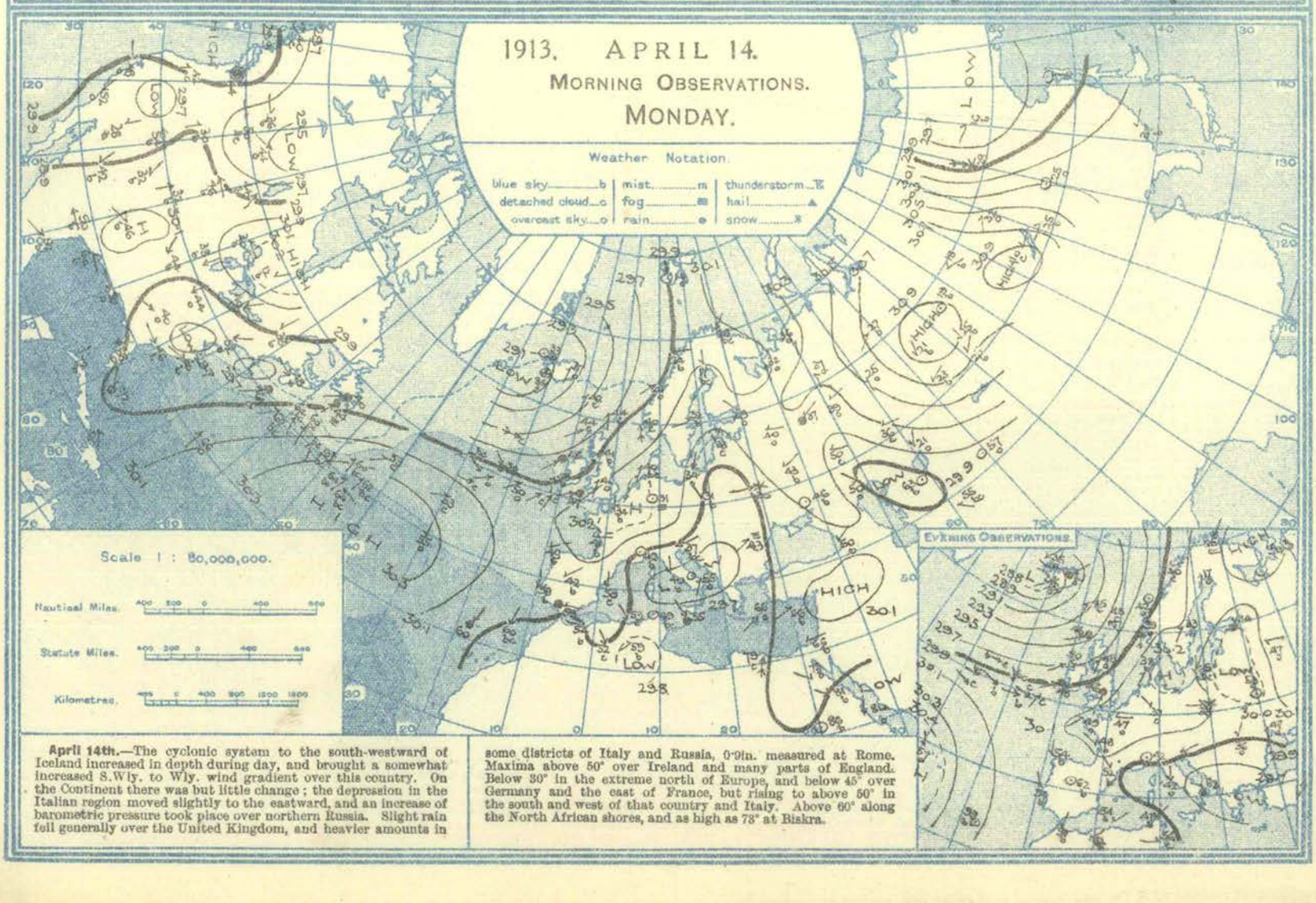
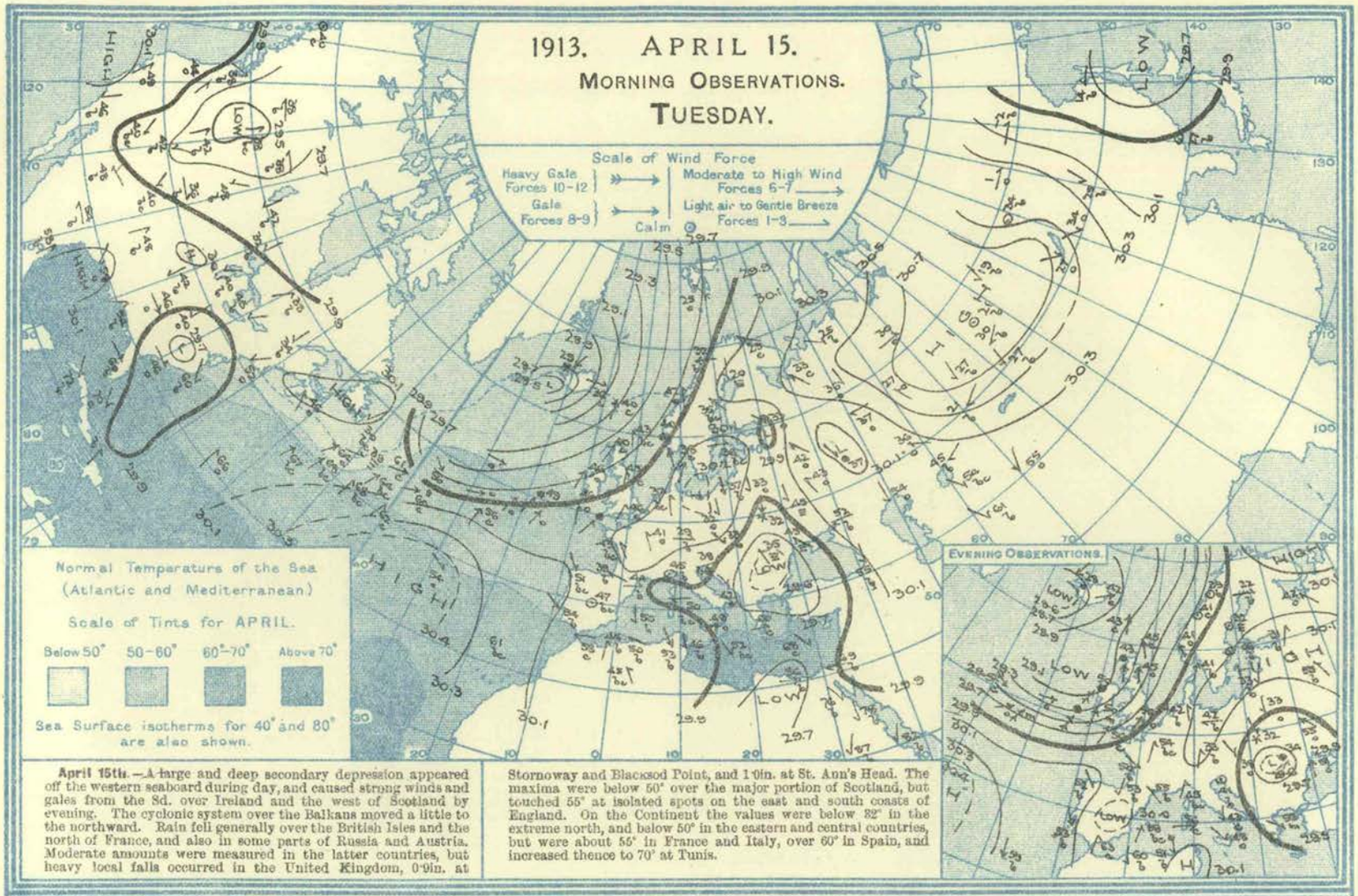


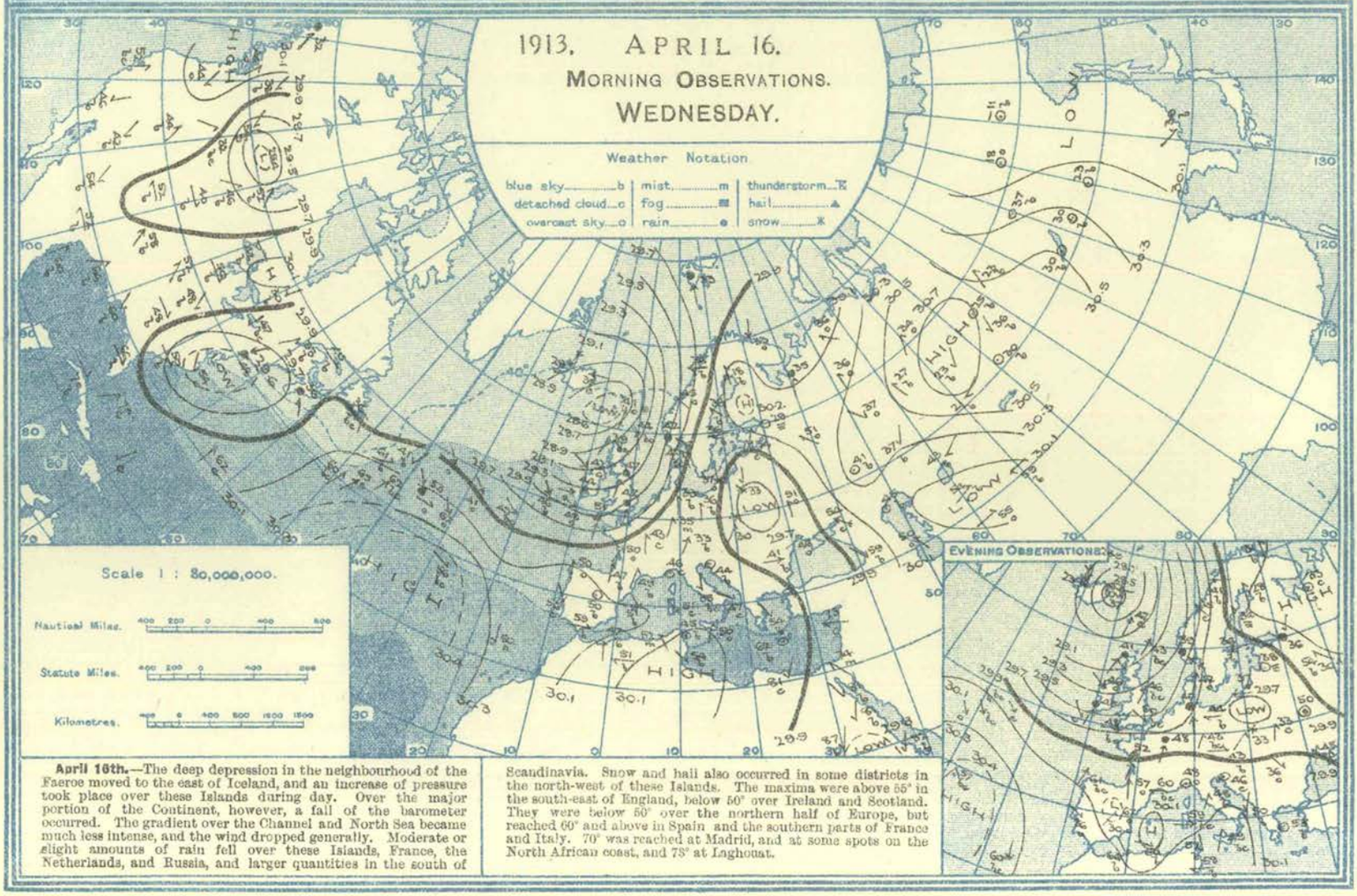
April 13th.—A decrease of pressure occurred in the north and west of these Islands, and the depression over Finland became less deep; little other change took place in the barometric situation. The S.Wly. wind in the north and west of the British Isles became much more decided, but the gales from the Nd. over the southern part of the Baltic entirely subsided. Slight quantities of rain fell in some parts of this country, and also over Italy, central Europe and Russia, 0·5in. being measured at Warsaw. Only in the extreme south-west of the British Isles did the maximum temperature reach 50°, while the day was very cold all over the northern and central countries of the Continent, as well as in France. In the north of Norway the highest value was only 26°, at Gap 32°, and over Germany about 40°. 55°-60° was reached over Spain, southern Italy and the southern Mediterranean shores, 70° at Lisbon, and 84° at Laghouat.



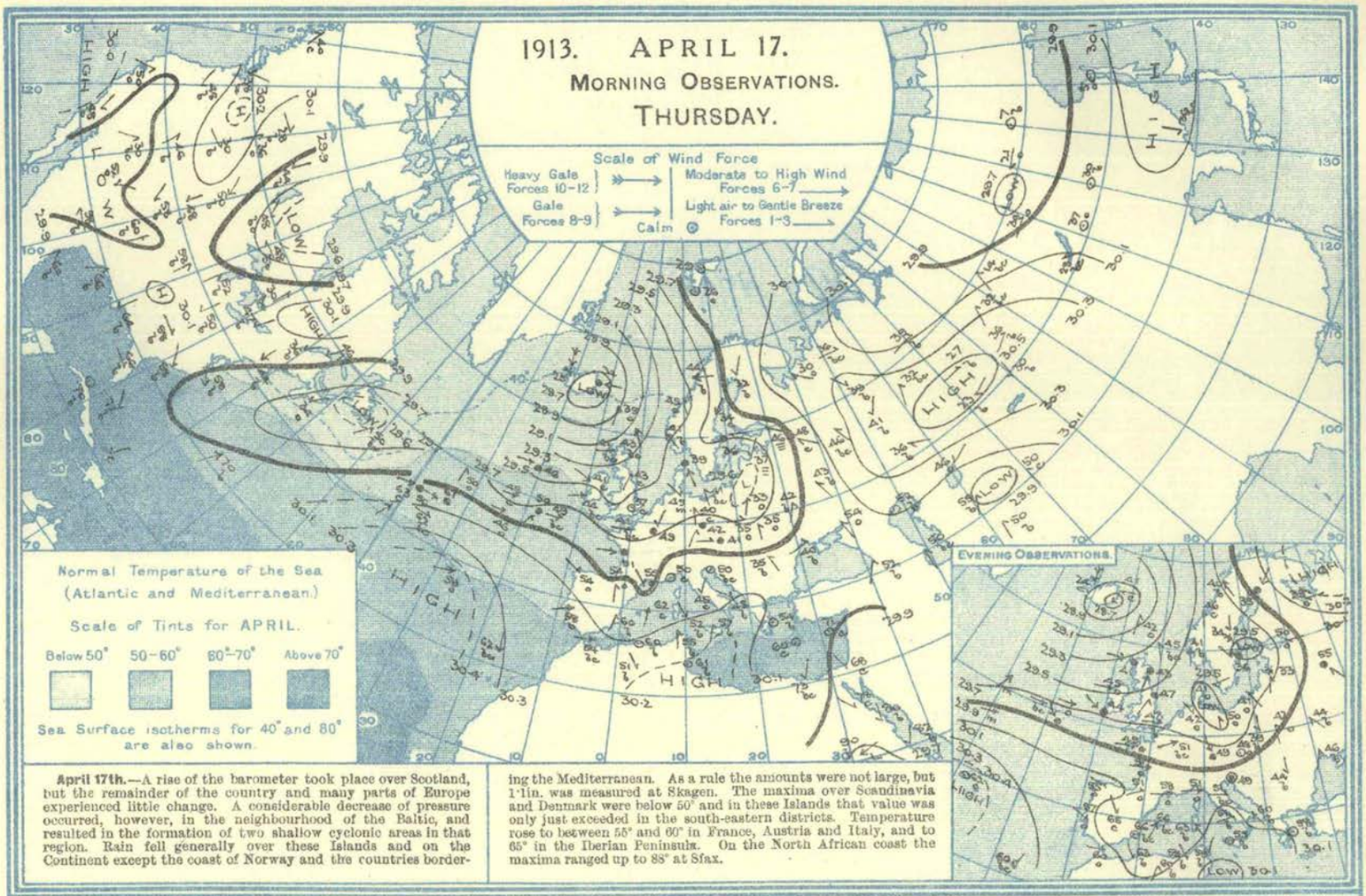
April 14th.—The cyclonic system to the south-westward of Iceland increased in depth during day, and brought a somewhat increased S.Wly. to Wly. wind gradient over this country. On the Continent there was but little change; the depression in the Italian region moved slightly to the eastward, and an increase of barometric pressure took place over northern Russia. Slight rain fell generally over the United Kingdom, and heavier amounts in some districts of Italy and Russia, 0·9in. measured at Rome. Maxima above 50° over Ireland and many parts of England. Below 30° in the extreme north of Europe, and below 45° over Germany and the east of France, but rising to above 50° in the south and west of that country and Italy. Above 60° along the North African shores, and as high as 78° at Biskra.



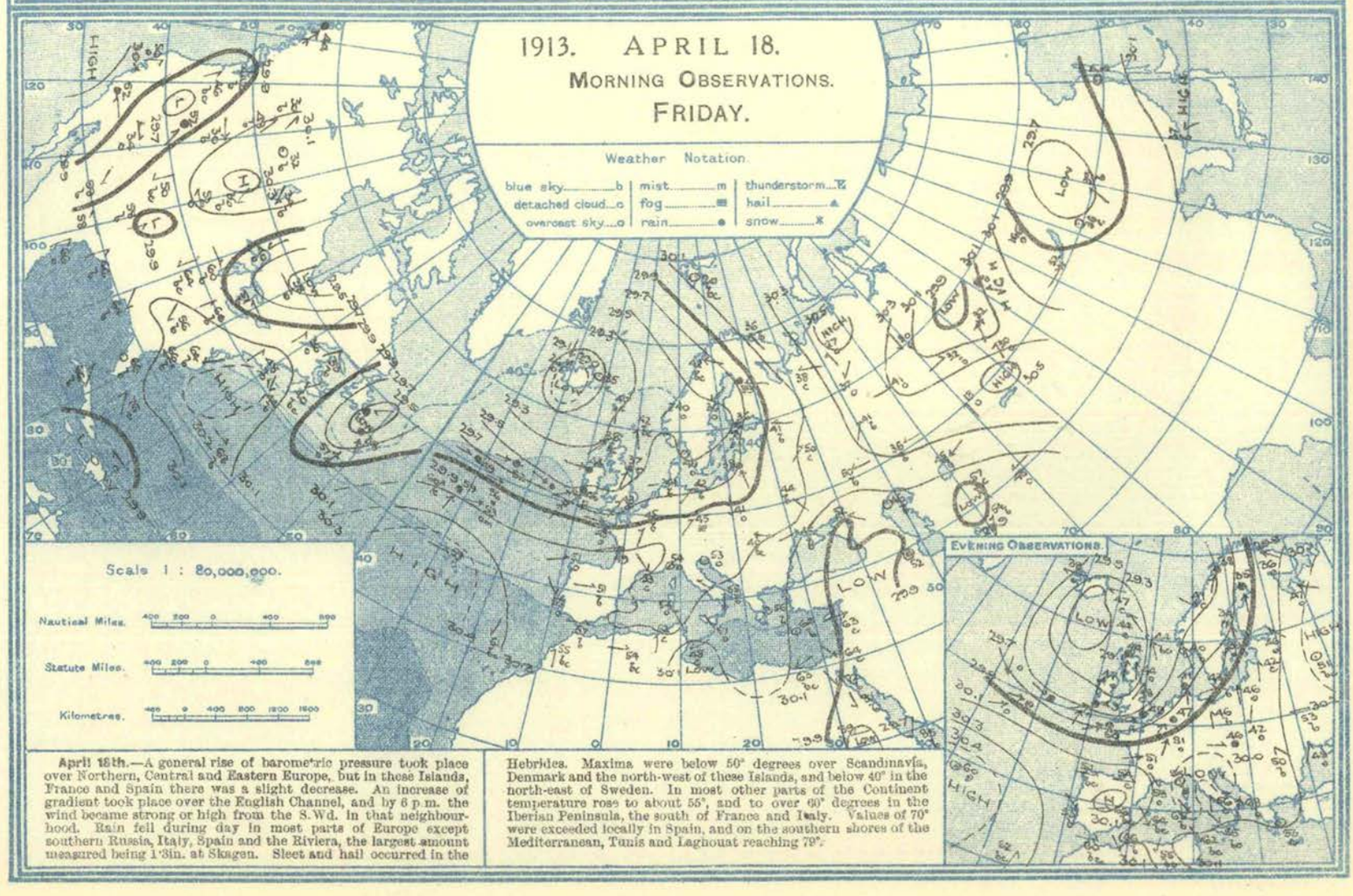
April 15th.—A large and deep secondary depression appeared off the western seaboard during day, and caused strong winds and gales from the Sd. over Ireland and the west of Scotland by evening. The cyclonic system over the Balkans moved a little to the northward. Rain fell generally over the British Isles and the north of France, and also in some parts of Russia and Austria. Moderate amounts were measured in the latter countries, but heavy local falls occurred in the United Kingdom, 0·9in. at Stornoway and Blacksod Point, and 1·0in. at St. Ann's Head. The maxima were below 50° over the major portion of Scotland, but touched 55° at isolated spots on the east and south coasts of England. On the Continent the values were below 32° in the extreme north, and below 50° in the eastern and central countries, but were about 55° in France and Italy, over 60° in Spain, and increased thence to 70° at Tunis.



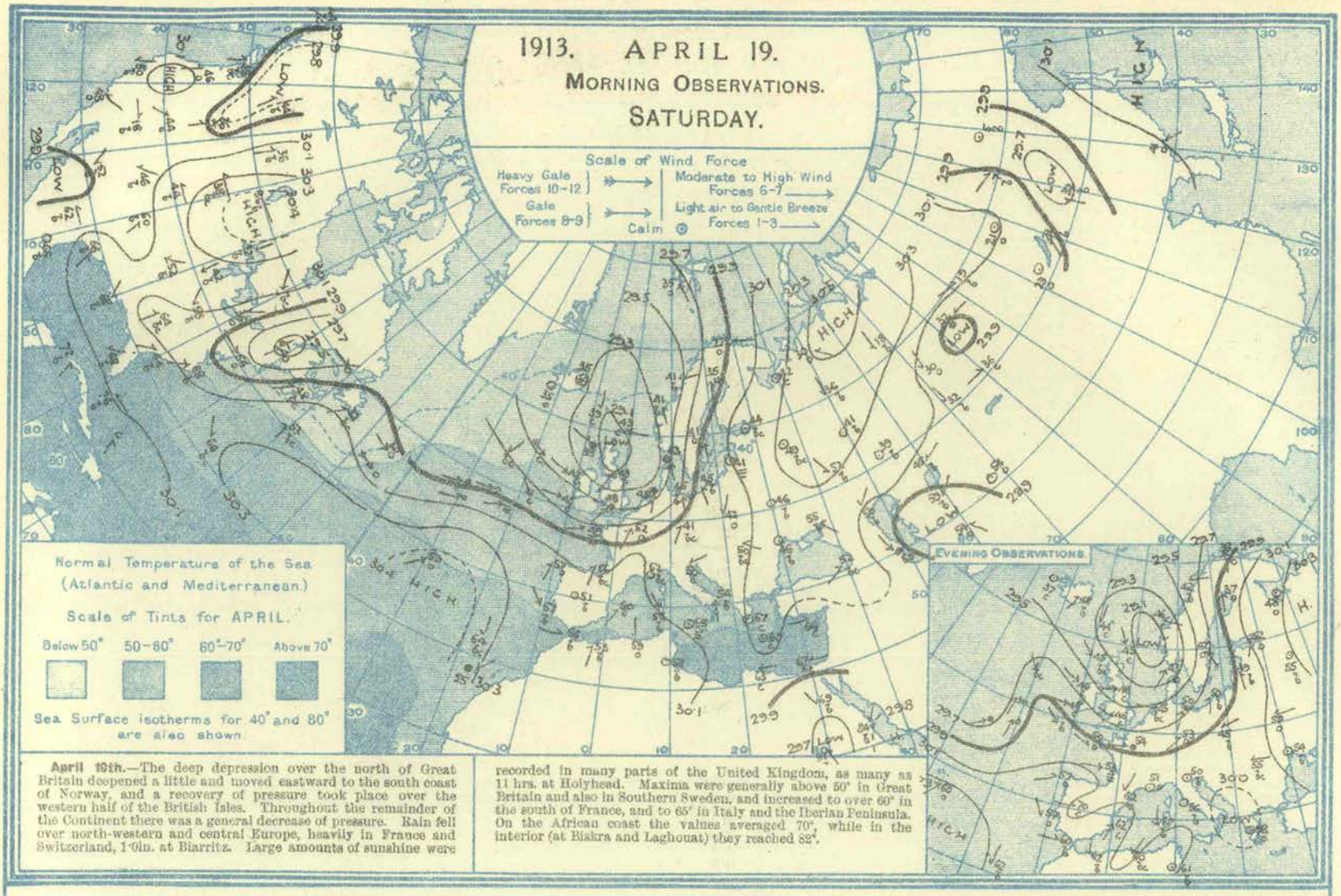
April 16th.—The deep depression in the neighbourhood of the Faeroe moved to the east of Iceland, and an increase of pressure took place over these Islands during day. Over the major portion of the Continent, however, a fall of the barometer occurred. The gradient over the Channel and North Sea became much less intense, and the wind dropped generally. Moderate or slight amounts of rain fell over these Islands, France, the Netherlands, and Russia, and larger quantities in the south of Scandinavia. Snow and hail also occurred in some districts in the north-west of these Islands. The maxima were above 55° in the south-east of England, below 50° over Ireland and Scotland. They were below 50° over the northern half of Europe, but reached 60° and above in Spain and the southern parts of France and Italy. 70° was reached at Madrid, and at some spots on the North African coast, and 78° at Laghouat.



April 17th.—A rise of the barometer took place over Scotland, but the remainder of the country and many parts of Europe experienced little change. A considerable decrease of pressure occurred, however, in the neighbourhood of the Baltic, and resulted in the formation of two shallow cyclonic areas in that region. Rain fell generally over these Islands and on the Continent except the coast of Norway and the countries bordering the Mediterranean. As a rule the amounts were not large, but 1·1in. was measured at Skagen. The maxima over Scandinavia and Denmark were below 50° and in these Islands that value was only just exceeded in the south-eastern districts. Temperature rose to between 55° and 60° in France, Austria and Italy, and to 65° in the Iberian Peninsula. On the North African coast the maxima ranged up to 88° at Sfax.

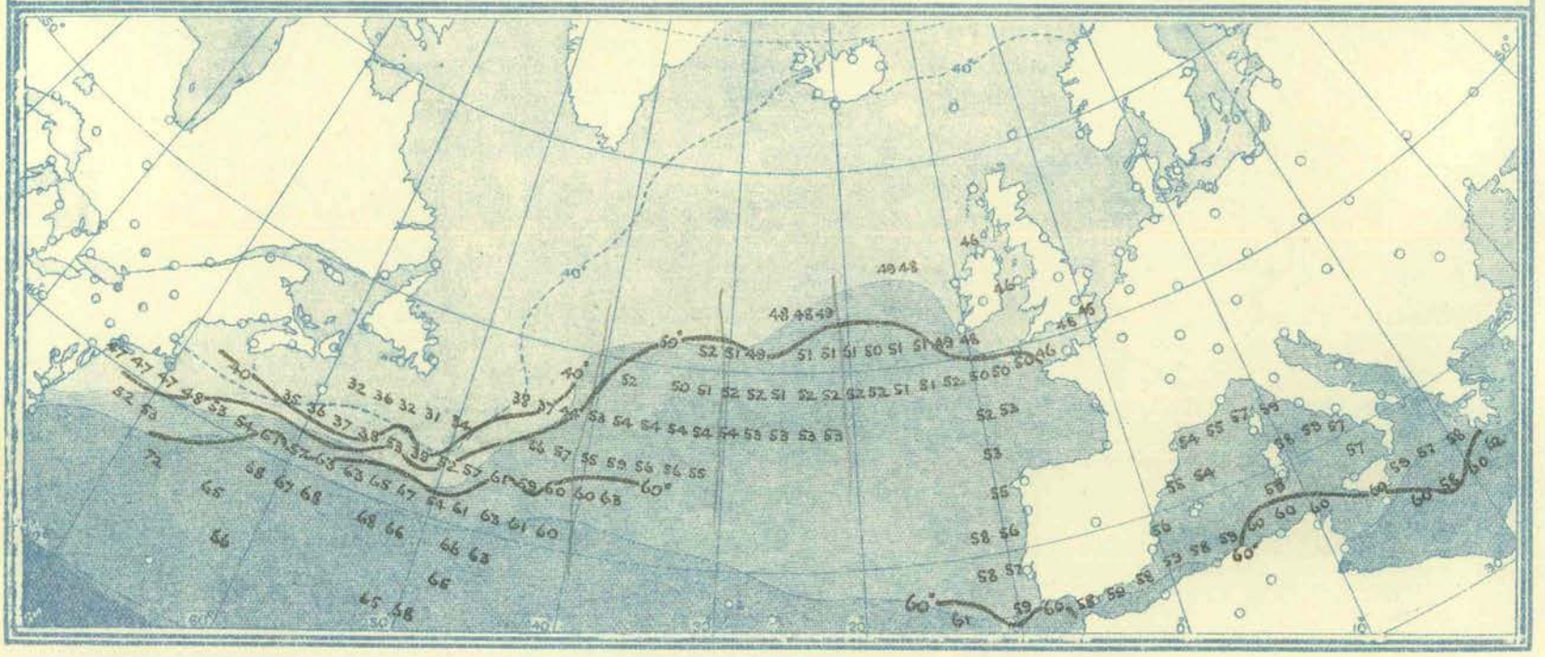


April 18th.—A general rise of barometric pressure took place over Northern, Central and Eastern Europe, but in these Islands, France and Spain there was a slight decrease. An increase of gradient took place over the English Channel, and by 6 p.m. the wind became strong or high from the S.Wd. in that neighbourhood. Rain fell during day in most parts of Europe except southern Russia, Italy, Spain and the Riviera, the largest amount measured being 1·3in. at Skagen. Sleet and hail occurred in the Hebrides. Maxima were below 50° degrees over Scandinavia, Denmark and the north-west of these Islands, and below 40° in the north-east of Sweden. In most other parts of the Continent temperature rose to about 55°, and to over 60° degrees in the Iberian Peninsula, the south of France and Italy. Values of 70° were exceeded locally in Spain, and on the southern shores of the Mediterranean, Tunis and Laghouat reaching 79°.



April 19th.—The deep depression over the north of Great Britain deepened a little and moved eastward to the south coast of Norway, and a recovery of pressure took place over the western half of the British Isles. Throughout the remainder of the Continent there was a general decrease of pressure. Rain fell over north-western and central Europe, heavily in France and Switzerland, 1·9in. at Biarritz. Large amounts of sunshine were recorded in many parts of the United Kingdom, as many as 11 hrs. at Holyhead. Maxima were generally above 50° in Great Britain and also in Southern Sweden, and increased to over 60° in the south of France, and to 65° in Italy and the Iberian Peninsula. On the African coast the values averaged 70°, while in the interior (at Biskra and Laghouat) they reached 82°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 19TH. APRIL, 1913.



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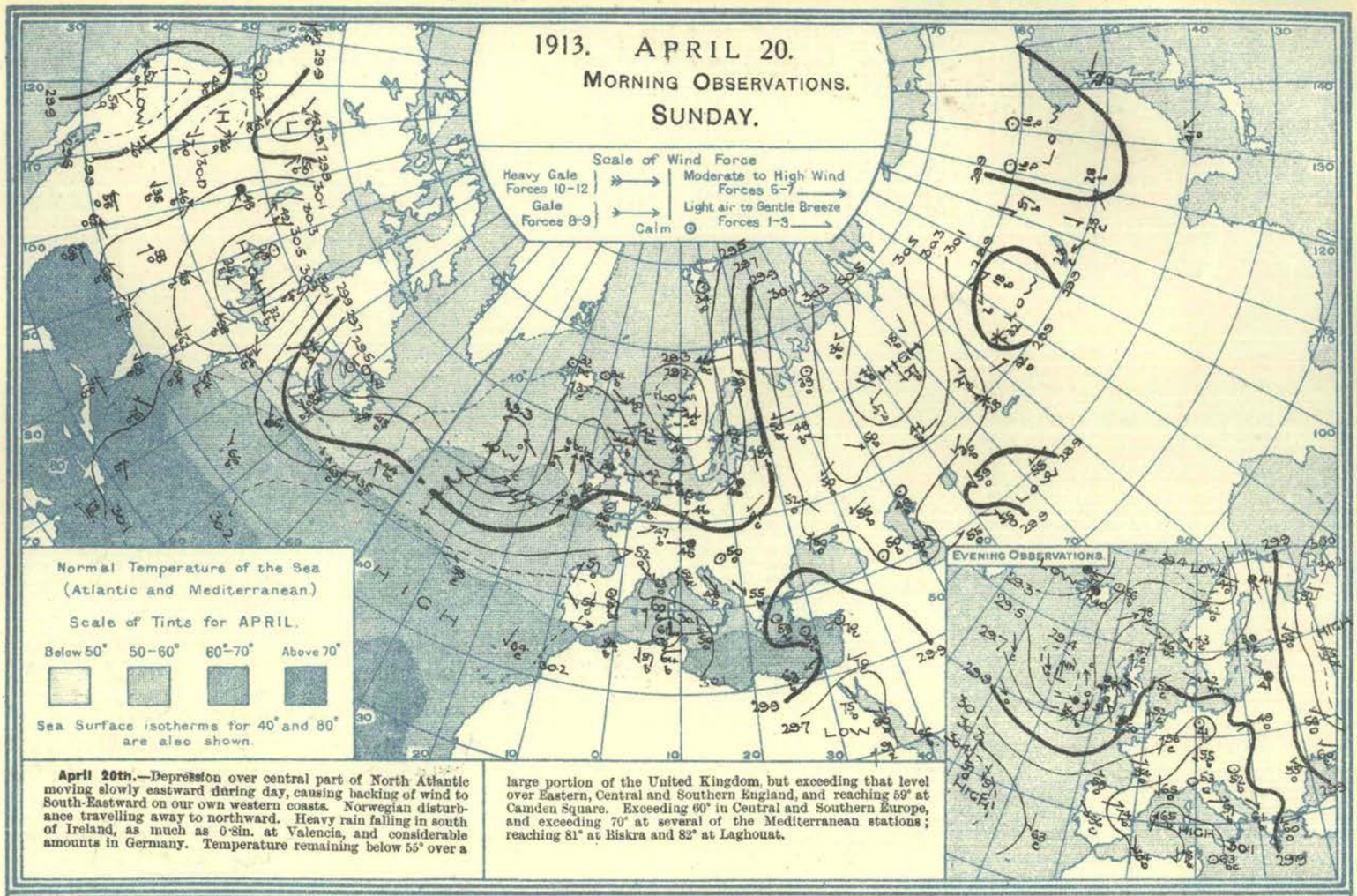
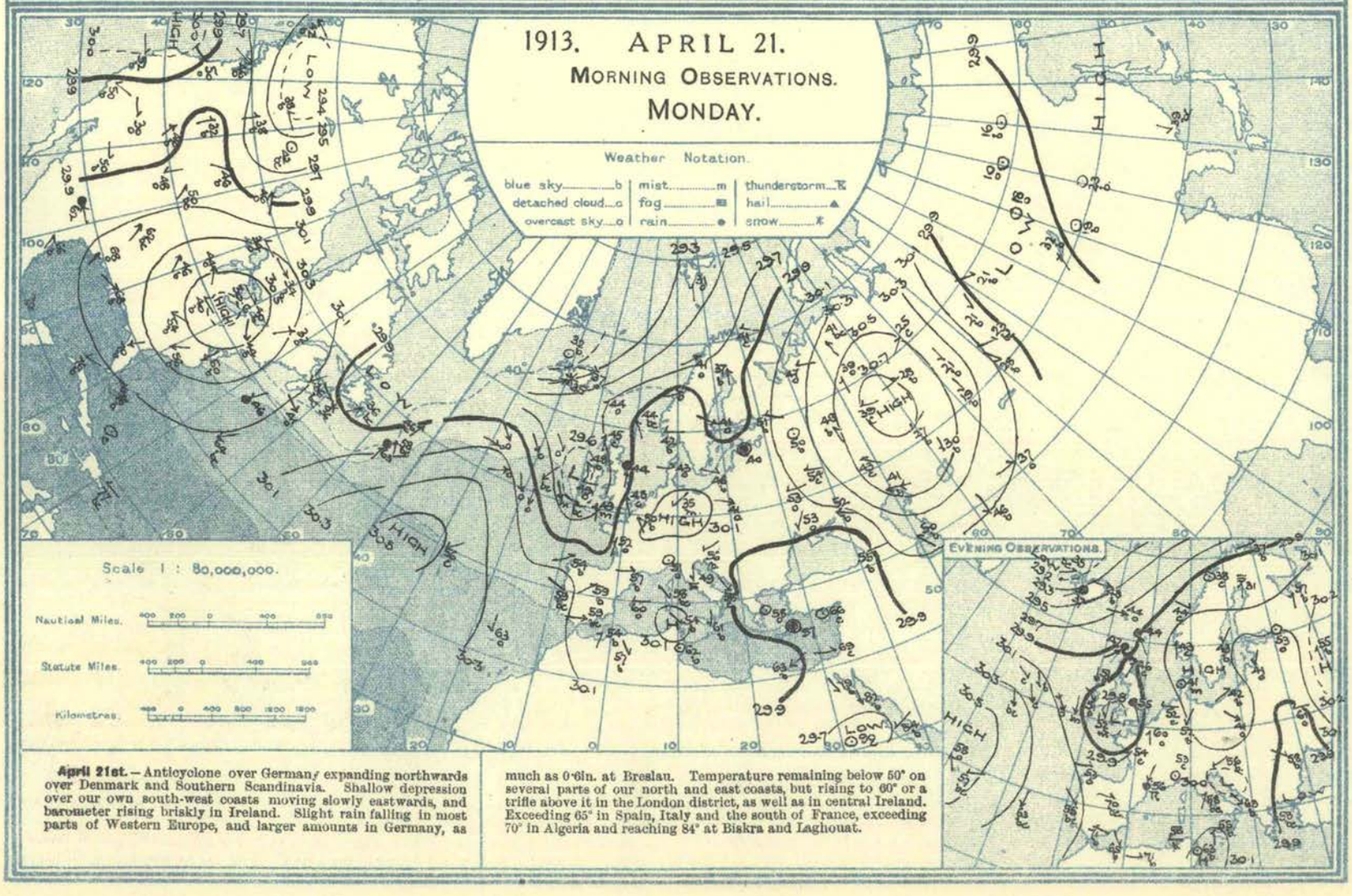
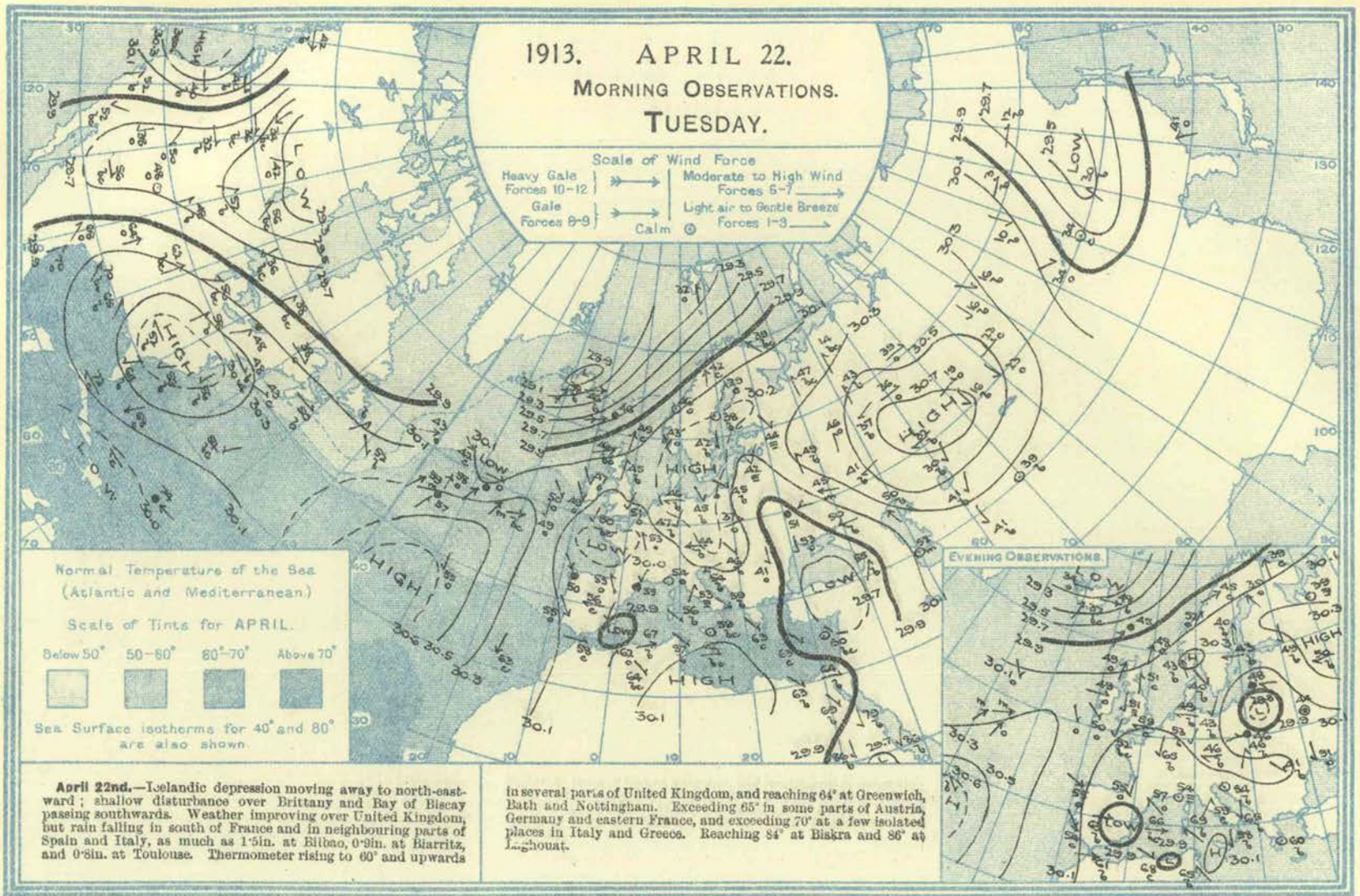


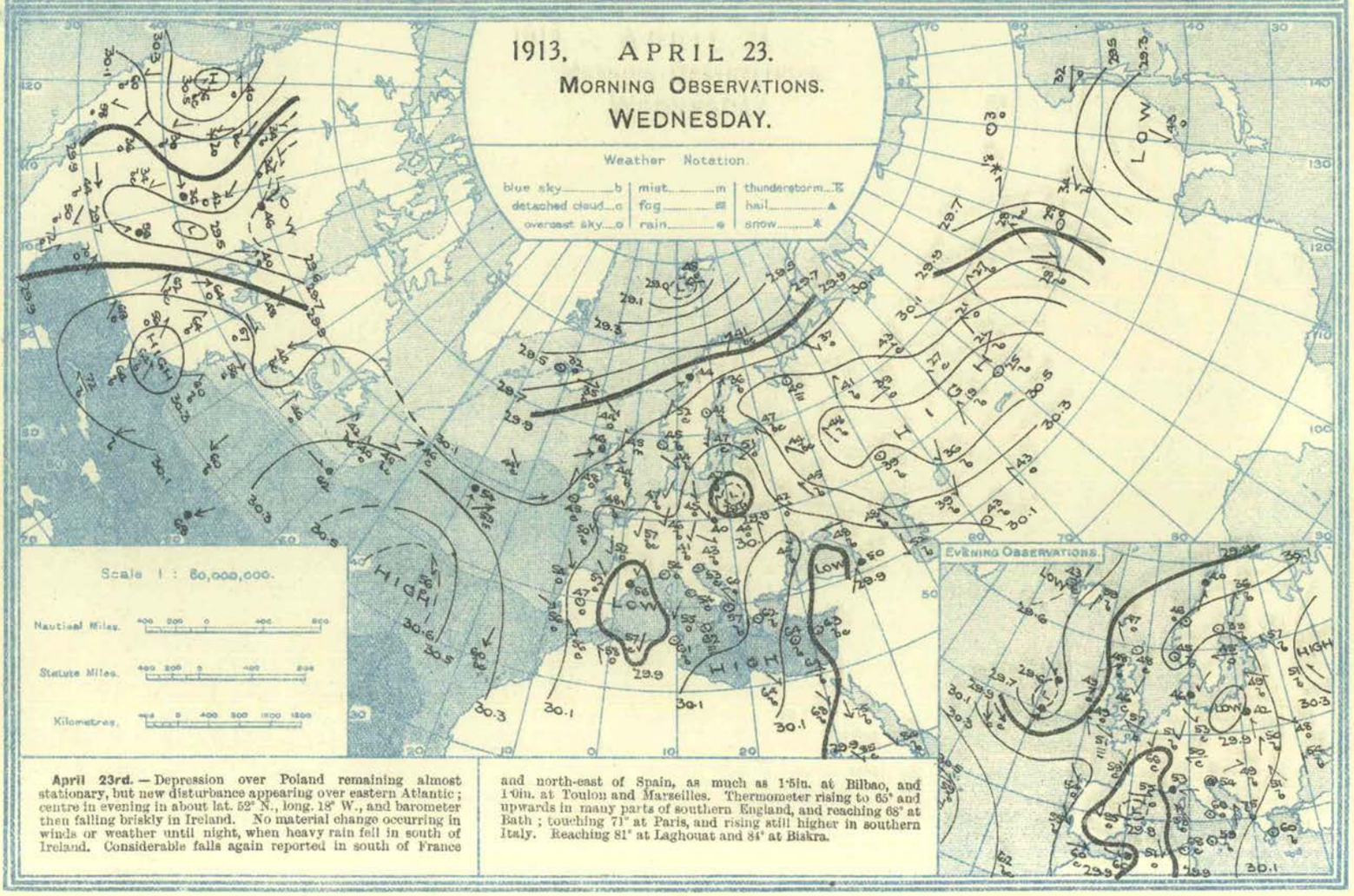
April 20th.—Depression over central part of North Atlantic moving slowly eastward during day, causing backing of wind to South-Eastward on our own western coasts. Norwegian disturbance travelling away to northward. Heavy rain falling in south of Ireland, as much as 0·8in. at Valencia, and considerable amounts in Germany. Temperature remaining below 55° over a large portion of the United Kingdom, but exceeding that level over Eastern, Central and Southern England, and reaching 59° at Camden Square. Exceeding 60° in Central and Southern Europe, and exceeding 70° at several of the Mediterranean stations; reaching 81° at Biskra and 82° at Laghouat.



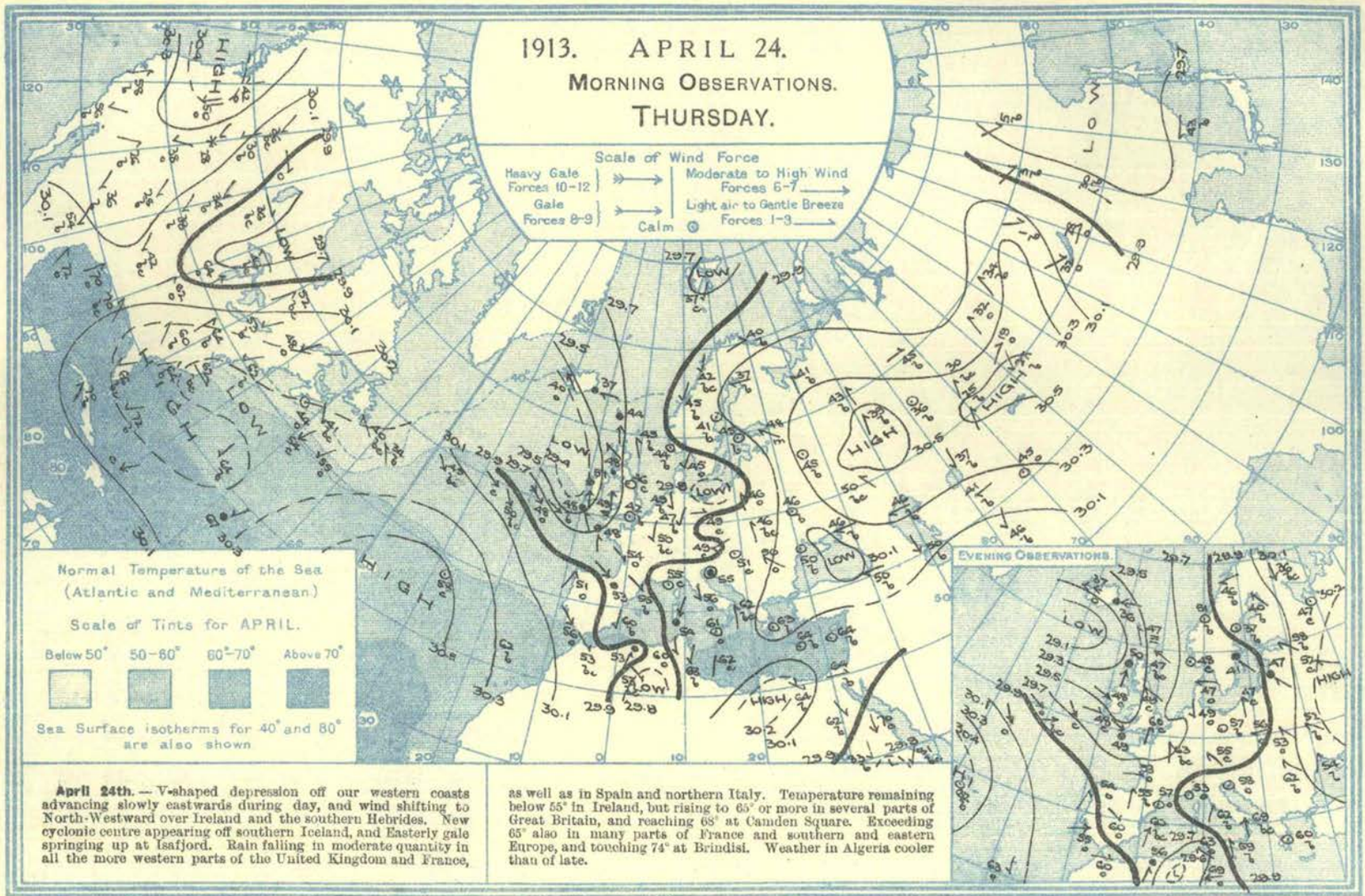
April 21st.—Anticyclone over Germany expanding northwards over Denmark and Southern Scandinavia. Shallow depression over our own south-west coasts moving slowly eastwards, and barometer rising briskly in Ireland. Slight rain falling in most parts of Western Europe, and larger amounts in Germany, as much as 0·6in. at Breslau. Temperature remaining below 50° on several parts of our north and east coasts, but rising to 60° or a trifle above it in the London district, as well as in central Ireland. Exceeding 65° in Spain, Italy and the south of France, exceeding 70° in Algeria and reaching 84° at Biskra and Laghouat.



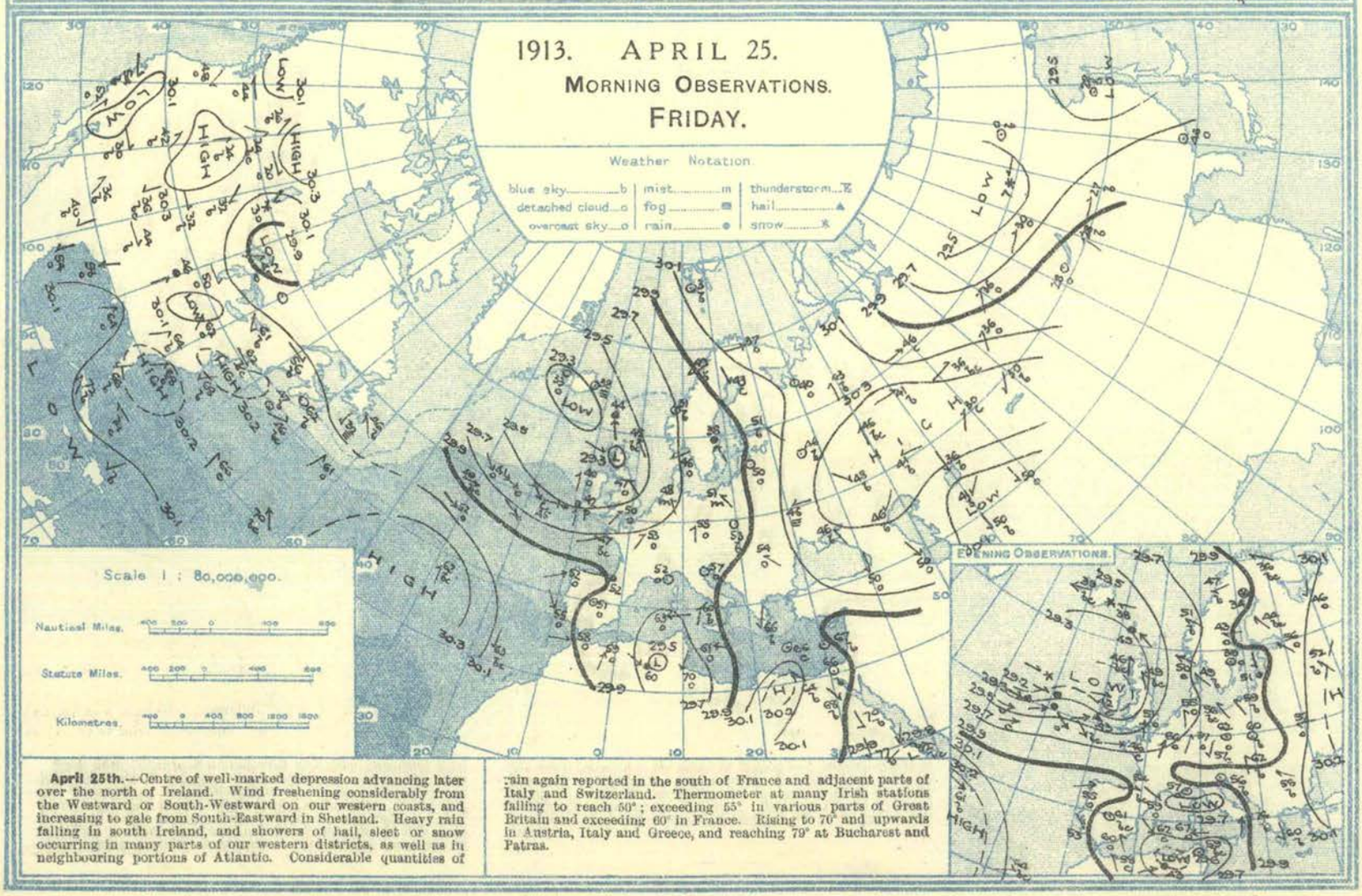
April 22nd.—Icelandic depression moving away to north-eastward; shallow disturbance over Brittany and Bay of Biscay passing southwards. Weather improving over United Kingdom, but rain falling in south of France and in neighbouring parts of Spain and Italy, as much as 1·5in. at Bilbao, 0·9in. at Biarritz, and 0·8in. at Toulouse. Thermometer rising to 60° and upwards in several parts of United Kingdom, and reaching 64° at Greenwich, Bath and Nottingham. Exceeding 65° in some parts of Austria, Germany and eastern France, and exceeding 70° at a few isolated places in Italy and Greece. Reaching 84° at Biskra and 86° at Laghouat.



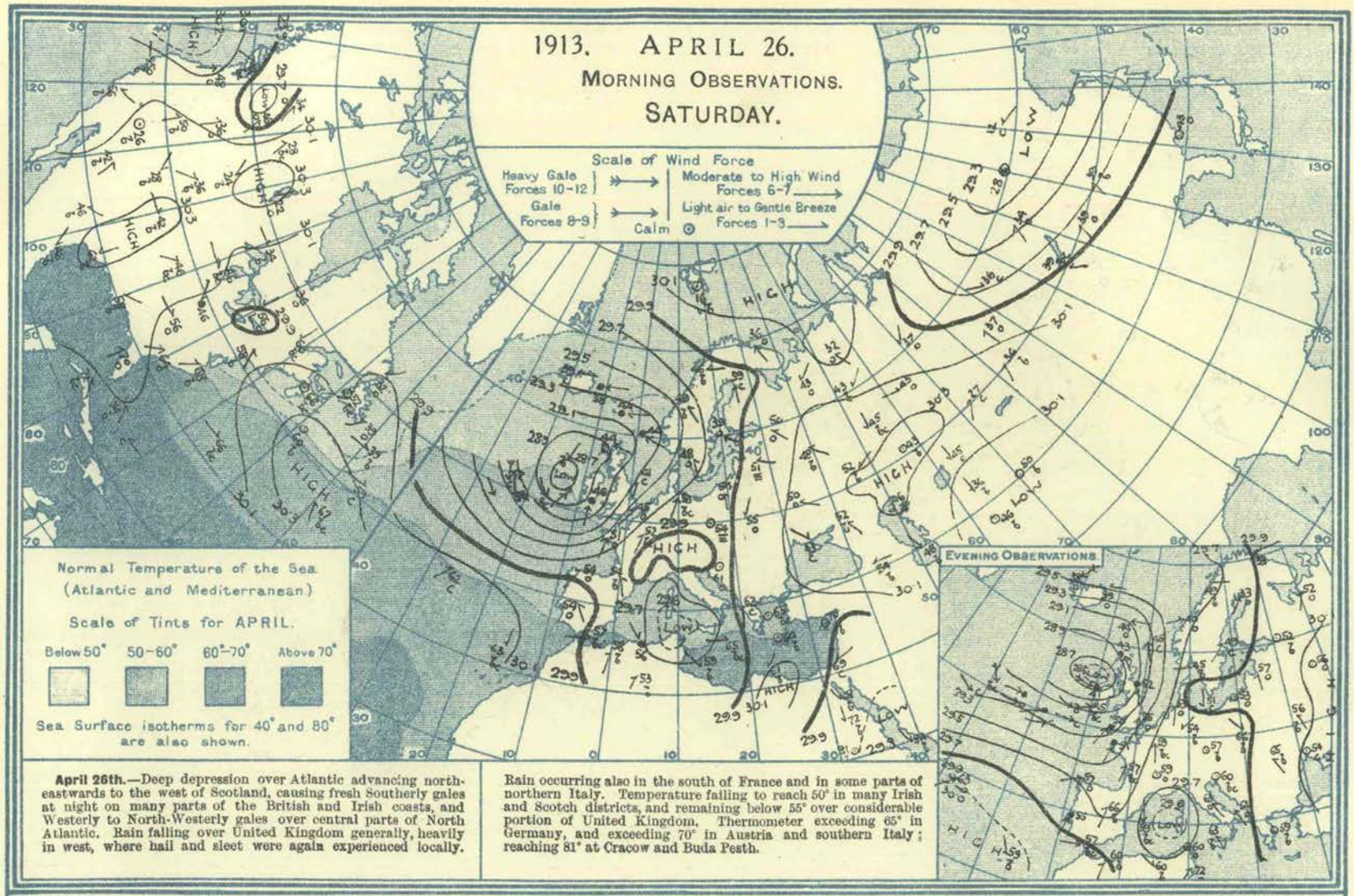
April 23rd.—Depression over Poland remaining almost stationary, but new disturbance appearing over eastern Atlantic; centre in evening in about lat. 52° N., long. 18° W., and barometer then falling briskly in Ireland. No material change occurring in winds or weather until night, when heavy rain fell in south of Ireland. Considerable falls again reported in south of France and north-east of Spain, as much as 1·5in. at Bilbao, and 1·0in. at Toulon and Marseilles. Thermometer rising to 65° and upwards in many parts of southern England, and reaching 68° at Bath; touching 71° at Paris, and rising still higher in southern Italy. Reaching 81° at Laghouat and 84° at Biskra.



April 24th.—V-shaped depression off our western coasts advancing slowly eastwards during day, and wind shifting to North-Westward over Ireland and the southern Hebrides. New cyclonic centre appearing off southern Iceland, and Easterly gale springing up at Isafjord. Rain falling in moderate quantity in all the more western parts of the United Kingdom and France, as well as in Spain and northern Italy. Temperature remaining below 55° in Ireland, but rising to 65° or more in several parts of Great Britain, and reaching 68° at Camden Square. Exceeding 65° also in many parts of France and southern and eastern Europe, and touching 74° at Brindisi. Weather in Algeria cooler than of late.



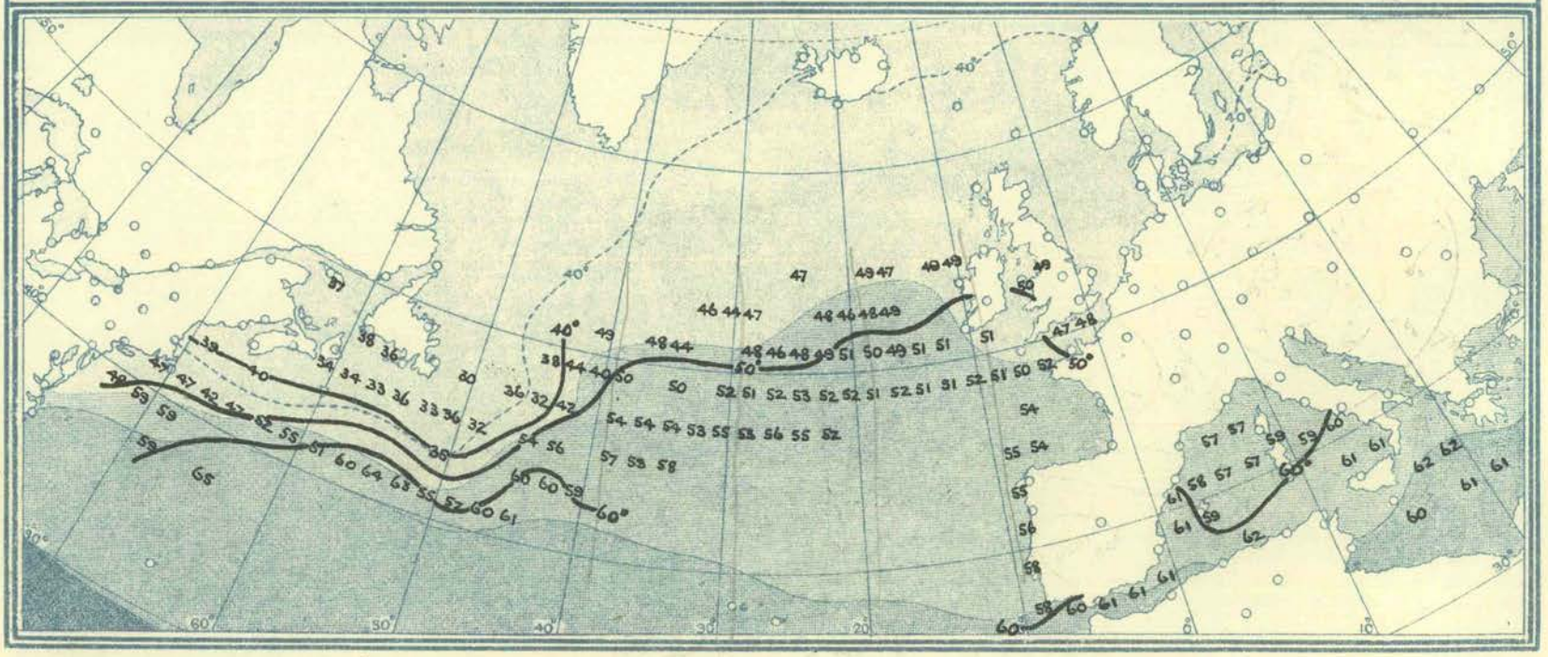
April 25th.—Centre of well-marked depression advancing later over the north of Ireland. Wind freshening considerably from the Westward or South-Westward on our western coasts, and increasing to gale from South-Eastward in Shetland. Heavy rain falling in south Ireland, and showers of hail, sleet or snow occurring in many parts of our western districts, as well as in neighbouring portions of Atlantic. Considerable quantities of rain again reported in the south of France and adjacent parts of Italy and Switzerland. Thermometer at many Irish stations failing to reach 50°; exceeding 55° in various parts of Great Britain and exceeding 60° in France. Rising to 70° and upwards in Austria, Italy and Greece, and reaching 79° at Bucharest and Patras.



April 26th.—Deep depression over Atlantic advancing north-eastwards to the west of Scotland, causing fresh Southerly gales at night on many parts of the British and Irish coasts, and Westerly to North-Westerly gales over central parts of North Atlantic. Rain falling over United Kingdom generally, heavily in west, where hail and sleet were again experienced locally.

Rain occurring also in the south of France and in some parts of northern Italy. Temperature failing to reach 50° in many Irish and Scotch districts, and remaining below 55° over considerable portion of United Kingdom. Thermometer exceeding 65° in Germany, and exceeding 70° in Austria and southern Italy; reaching 81° at Cracow and Buda Pesth.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 26TH. APRIL, 1913.



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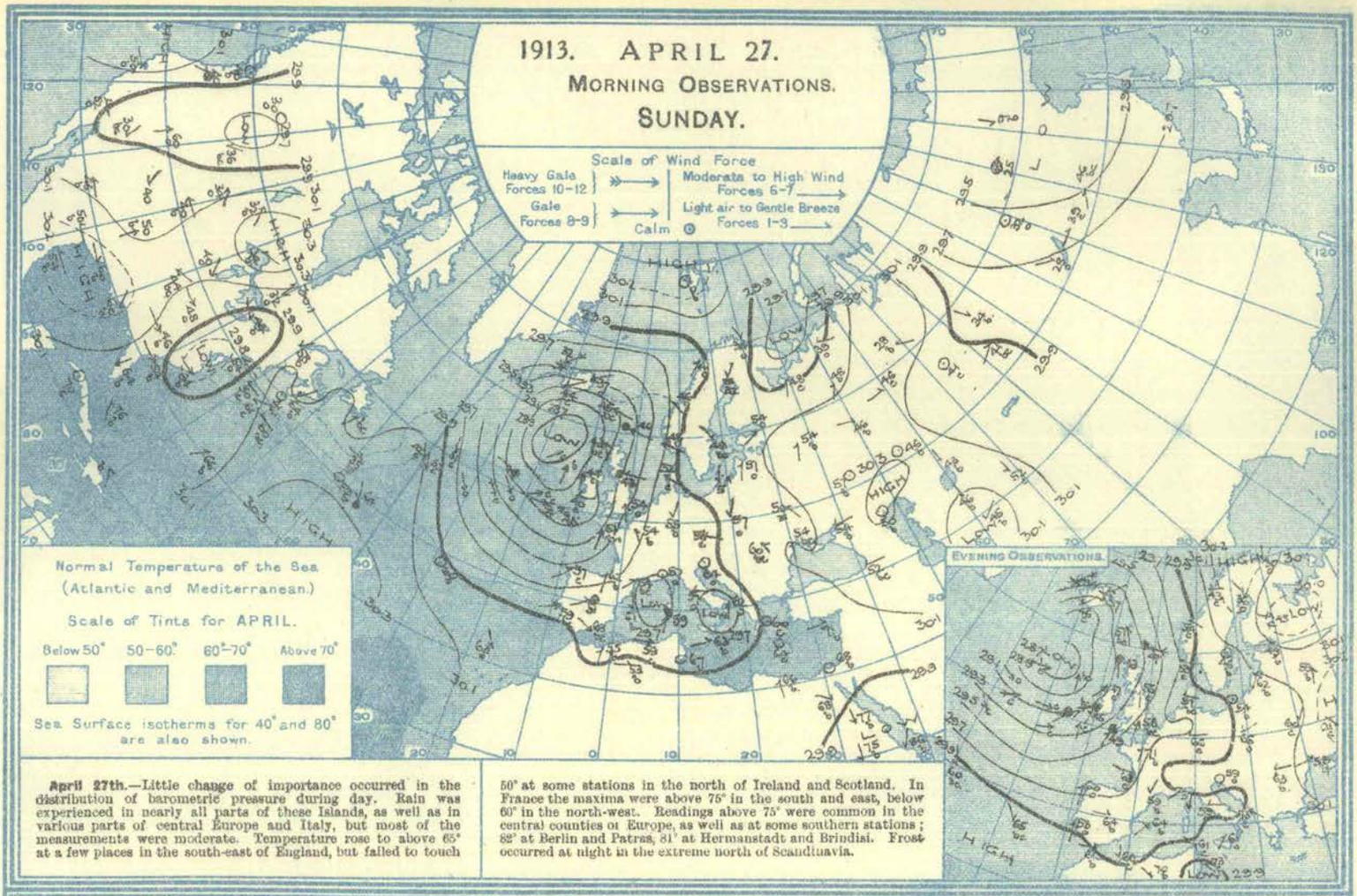
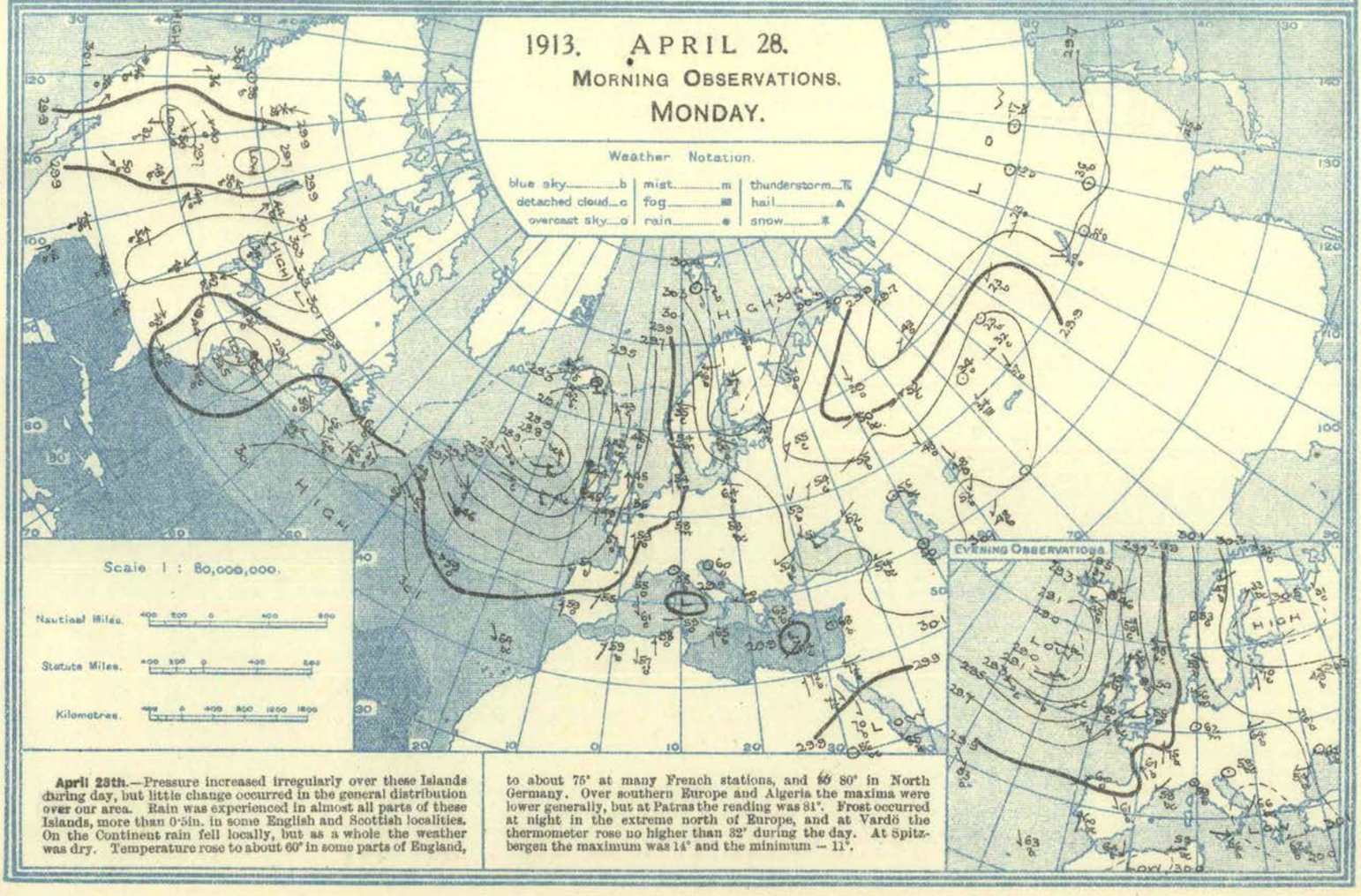
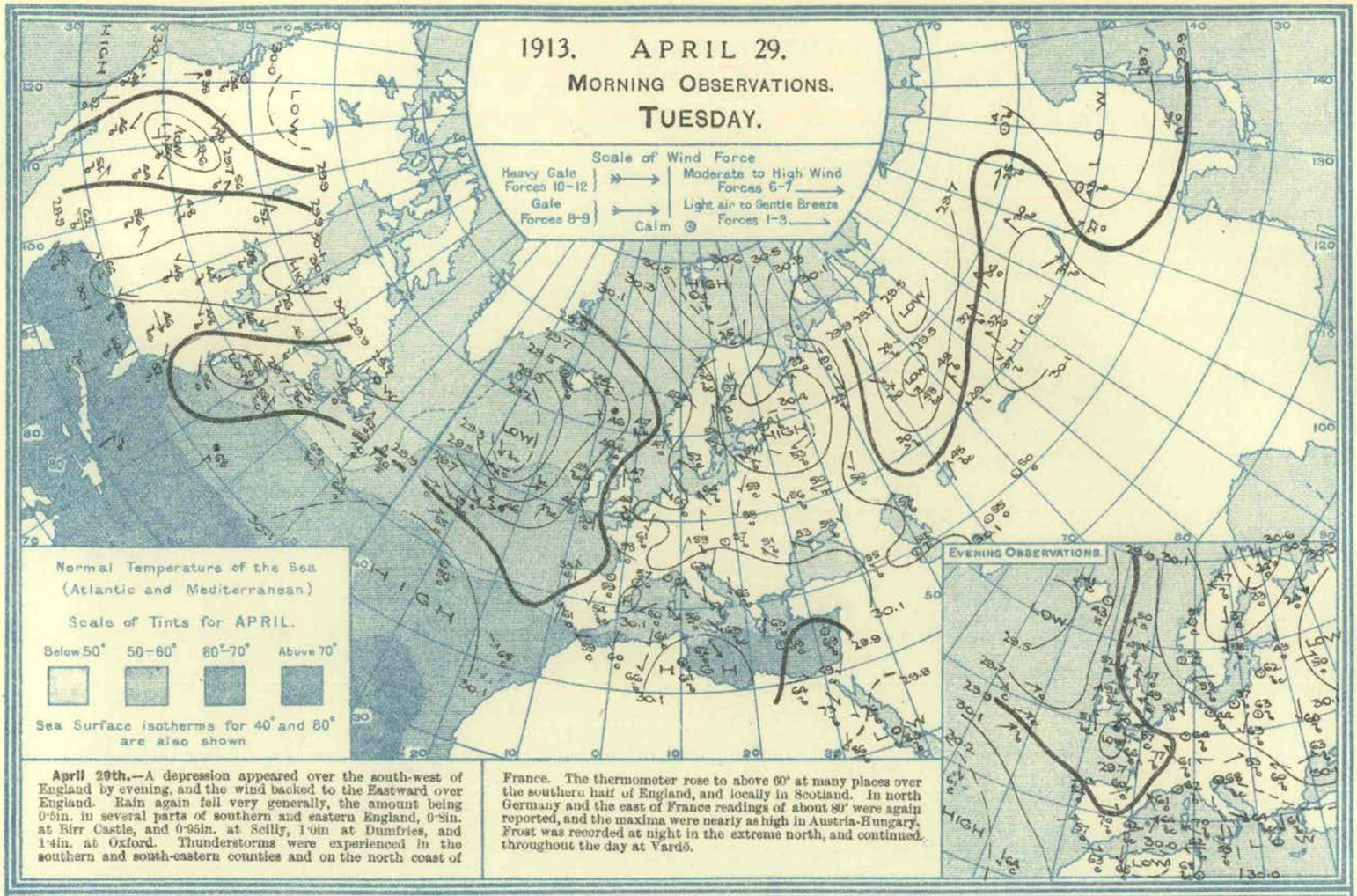


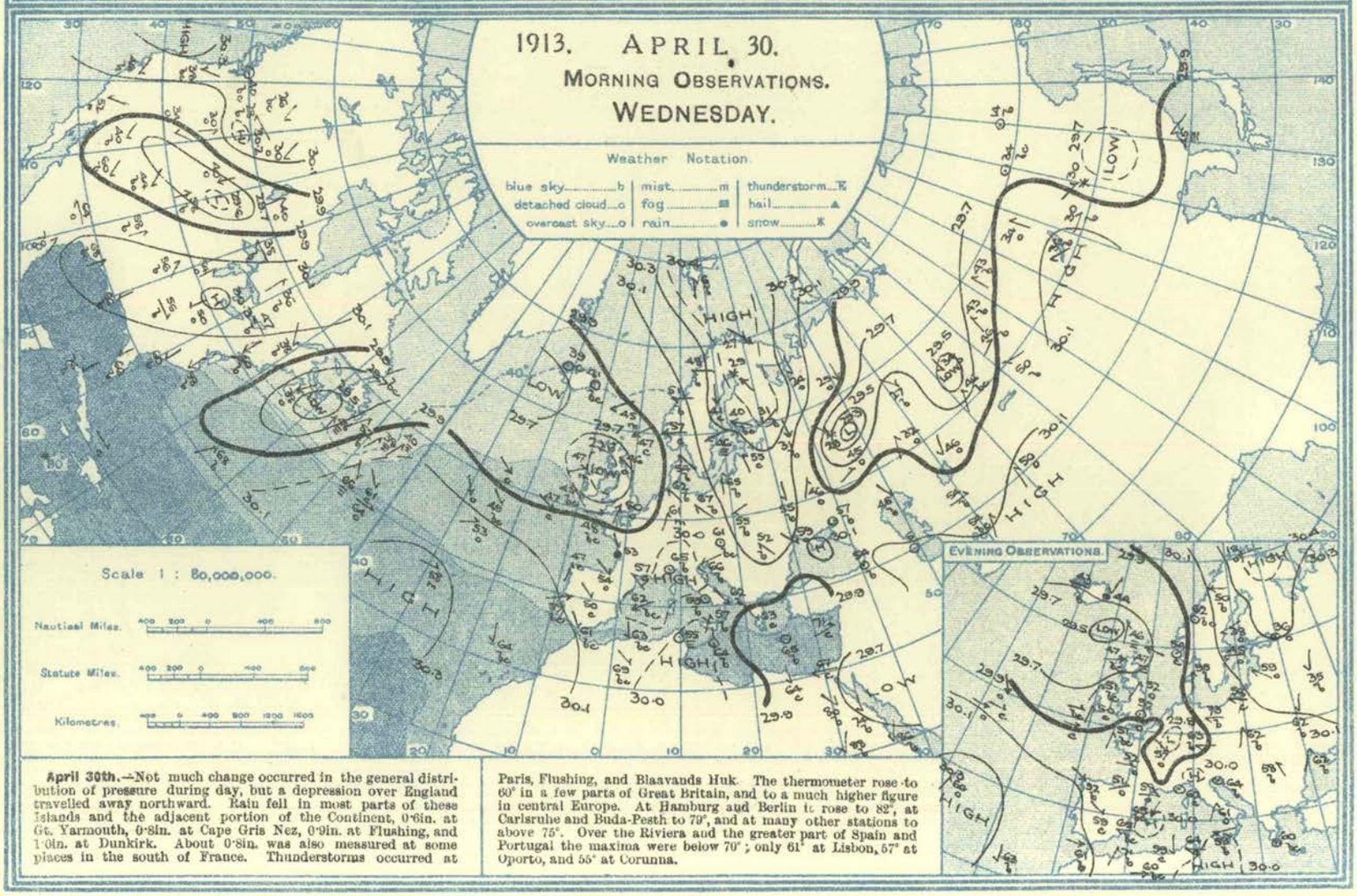
April 27th.—Little change of importance occurred in the distribution of barometric pressure during day. Rain was experienced in nearly all parts of these Islands, as well as in various parts of central Europe and Italy, but most of the measurements were moderate. Temperature rose to above 65° at a few places in the south-east of England, but failed to touch 50° at some stations in the north of Ireland and Scotland. In France the maxima were above 75° in the south and east, below 60° in the north-west. Readings above 75° were common in the central counties of Europe, as well as at some southern stations; 82° at Berlin and Patras, 81° at Hermanstadt and Brindisi. Frost occurred at night in the extreme north of Scandinavia.



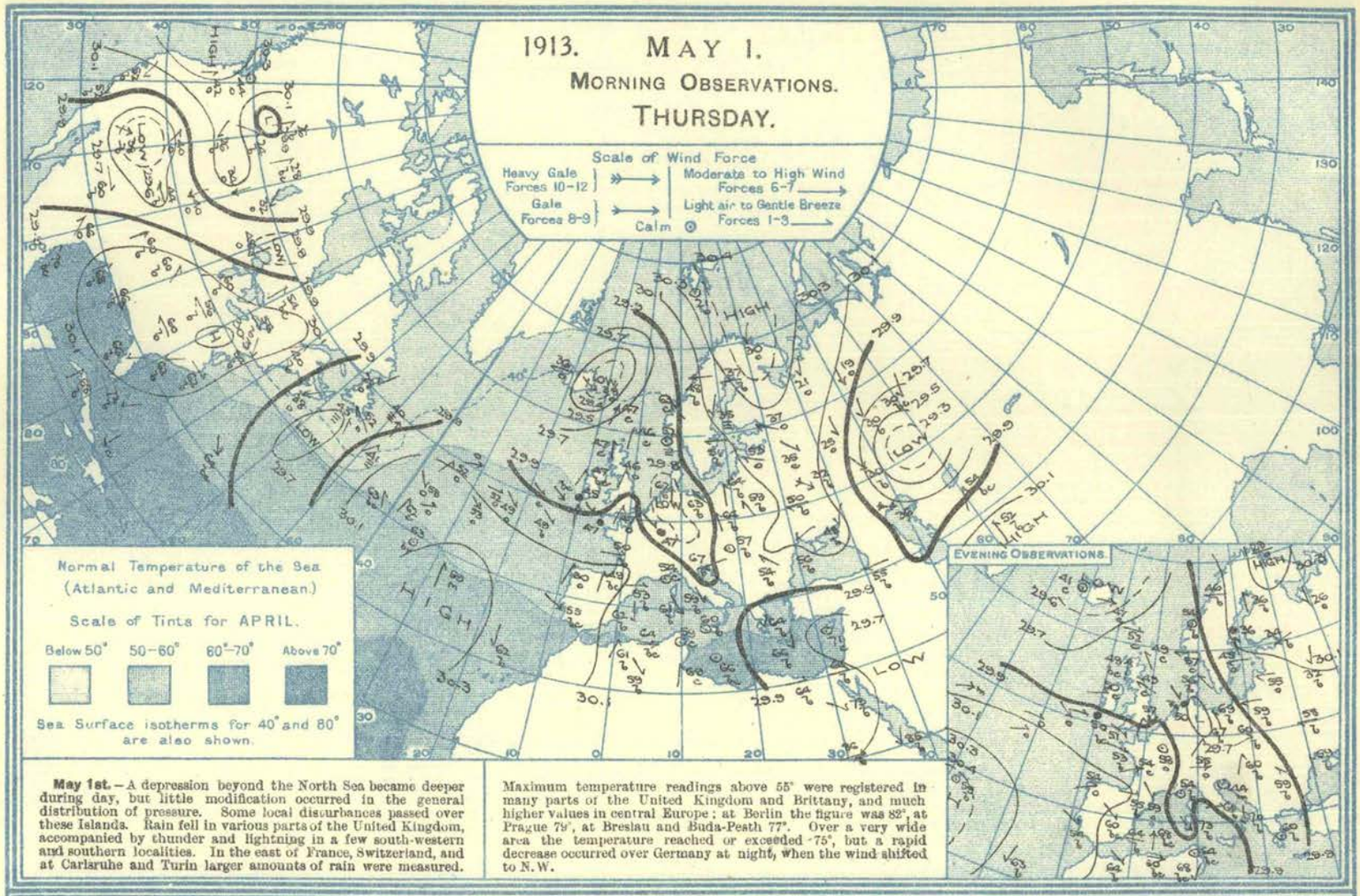
April 28th.—Pressure increased irregularly over these Islands during day, but little change occurred in the general distribution over our area. Rain was experienced in almost all parts of these Islands, more than 0·5in. in some English and Scottish localities. On the Continent rain fell locally, but as a whole the weather was dry. Temperature rose to about 60° in some parts of England, to about 75° at many French stations, and to 80° in North Germany. Over southern Europe and Algeria the maxima were lower generally, but at Patras the reading was 81°. Frost occurred at night in the extreme north of Europe, and at Vardö the thermometer rose no higher than 32° during the day. At Spitzbergen the maximum was 14° and the minimum — 11°.



April 29th.—A depression appeared over the south-west of England by evening, and the wind backed to the Eastward over England. Rain again fell very generally, the amount being 0·5in. in several parts of southern and eastern England, 0·8in. at Birr Castle, and 0·95in. at Scilly, 1·0in at Dumfries, and 1·4in. at Oxford. Thunderstorms were experienced in the southern and south-eastern counties and on the north coast of France. The thermometer rose to above 60° at many places over the southern half of England, and locally in Scotland. In north Germany and the east of France readings of about 80° were again reported, and the maxima were nearly as high in Austria-Hungary. Frost was recorded at night in the extreme north, and continued throughout the day at Vardö.

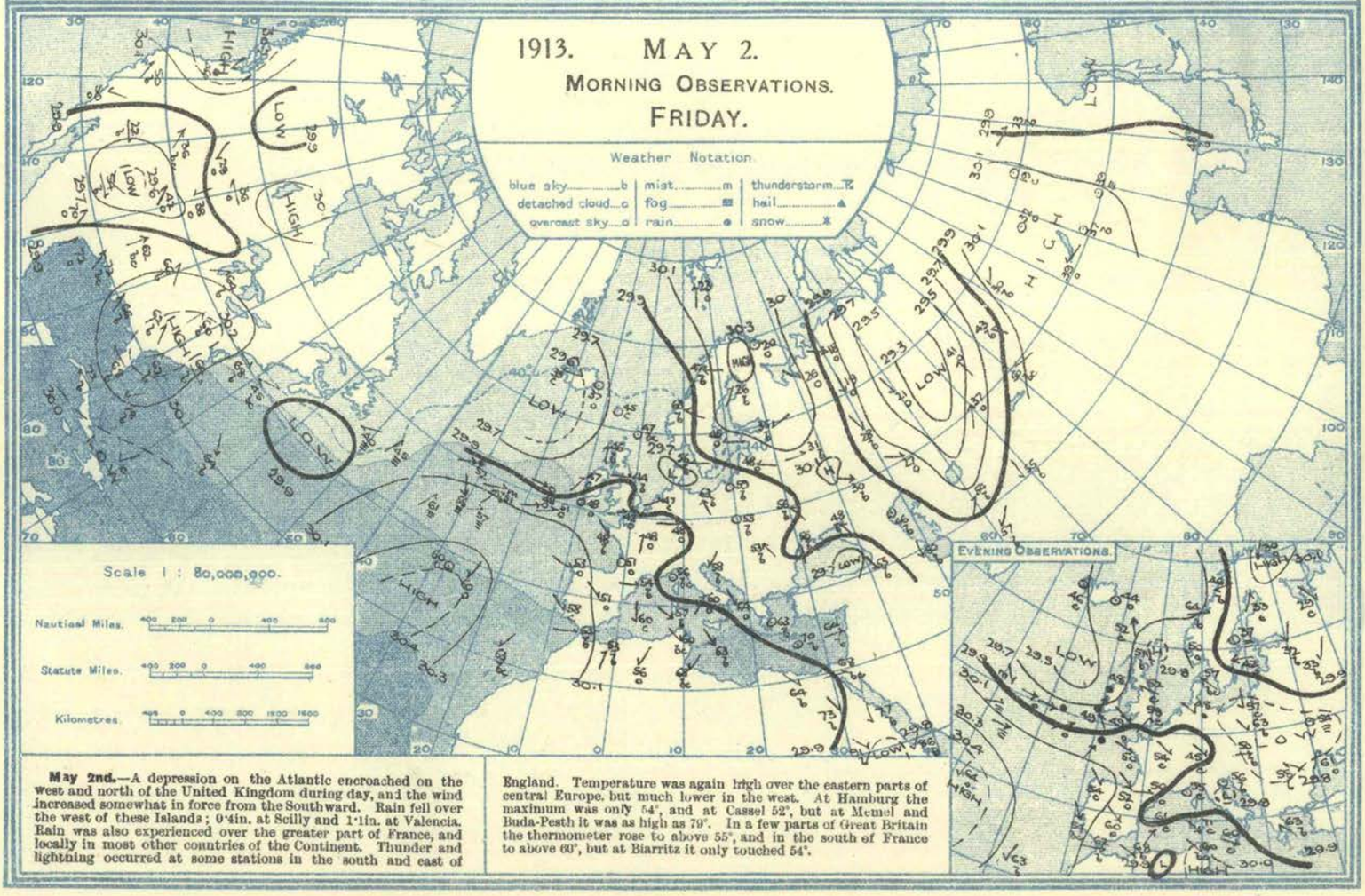


April 30th.—Not much change occurred in the general distribution of pressure during day, but a depression over England travelled away northward. Rain fell in most parts of these Islands and the adjacent portion of the Continent, 0·6in. at Gt. Yarmouth, 0·8in. at Cape Gris Nez, 0·9in. at Flushing, and 1·0in. at Dunkirk. About 0·8in. was also measured at some places in the south of France. Thunderstorms occurred at Paris, Flushing, and Blaavands Huk. The thermometer rose to 60° in a few parts of Great Britain, and to a much higher figure in central Europe. At Hamburg and Berlin it rose to 82°, at Carlsruhe and Buda-Pesth to 79°, and at many other stations to above 75°. Over the Riviera and the greater part of Spain and Portugal the maxima were below 70°; only 61° at Lisbon, 57° at Oporto, and 55° at Corunna.

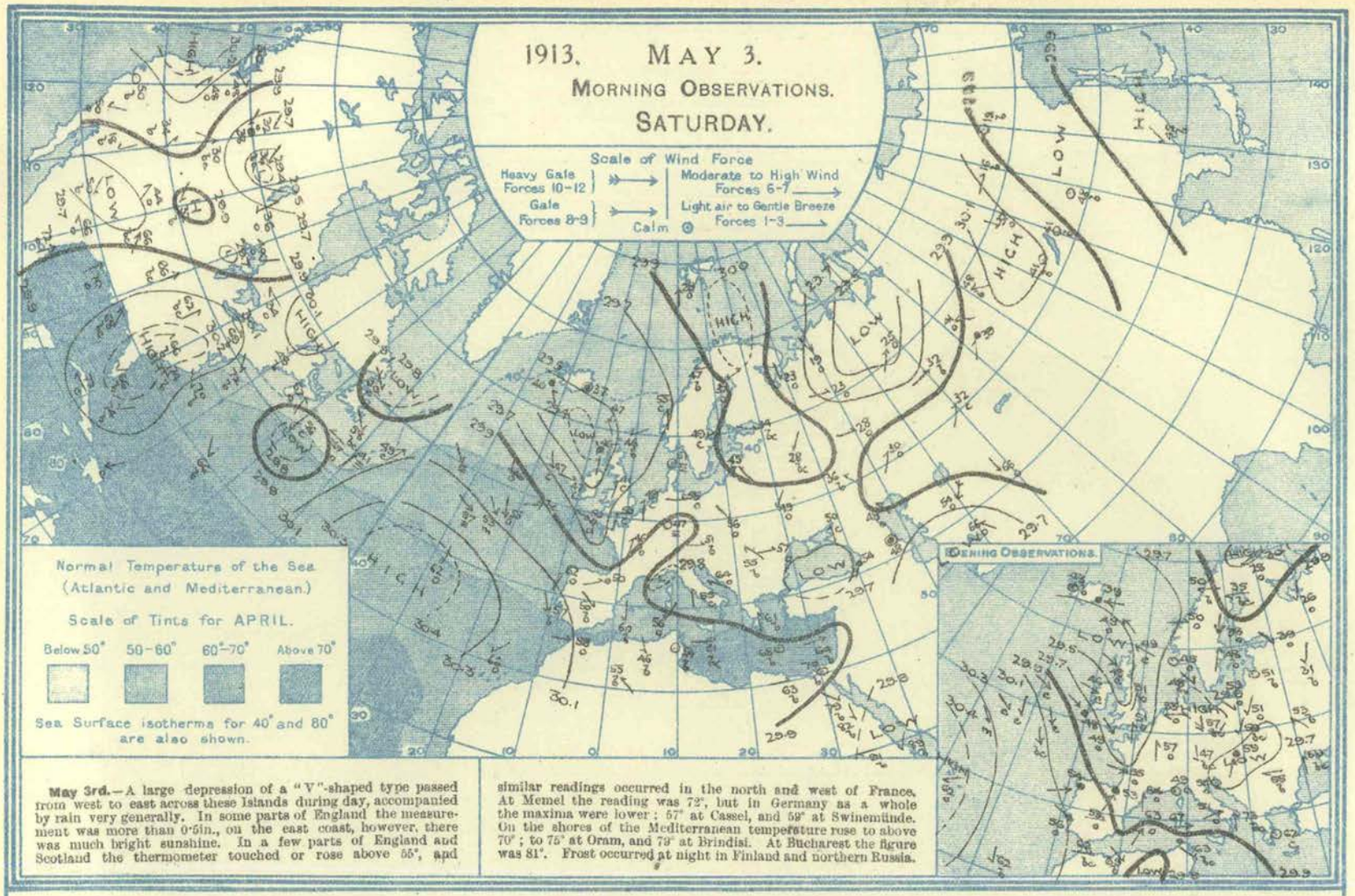


May 1st.—A depression beyond the North Sea became deeper during day, but little modification occurred in the general distribution of pressure. Some local disturbances passed over these Islands. Rain fell in various parts of the United Kingdom, accompanied by thunder and lightning in a few south-western and southern localities. In the east of France, Switzerland, and at Carlsruhe and Turin larger amounts of rain were measured.

Maximum temperature readings above 55° were registered in many parts of the United Kingdom and Brittany, and much higher values in central Europe; at Berlin the figure was 82°, at Prague 79°, at Breslau and Buda-Pesth 77°. Over a very wide area the temperature reached or exceeded 75°, but a rapid decrease occurred over Germany at night, when the wind shifted to N.W.

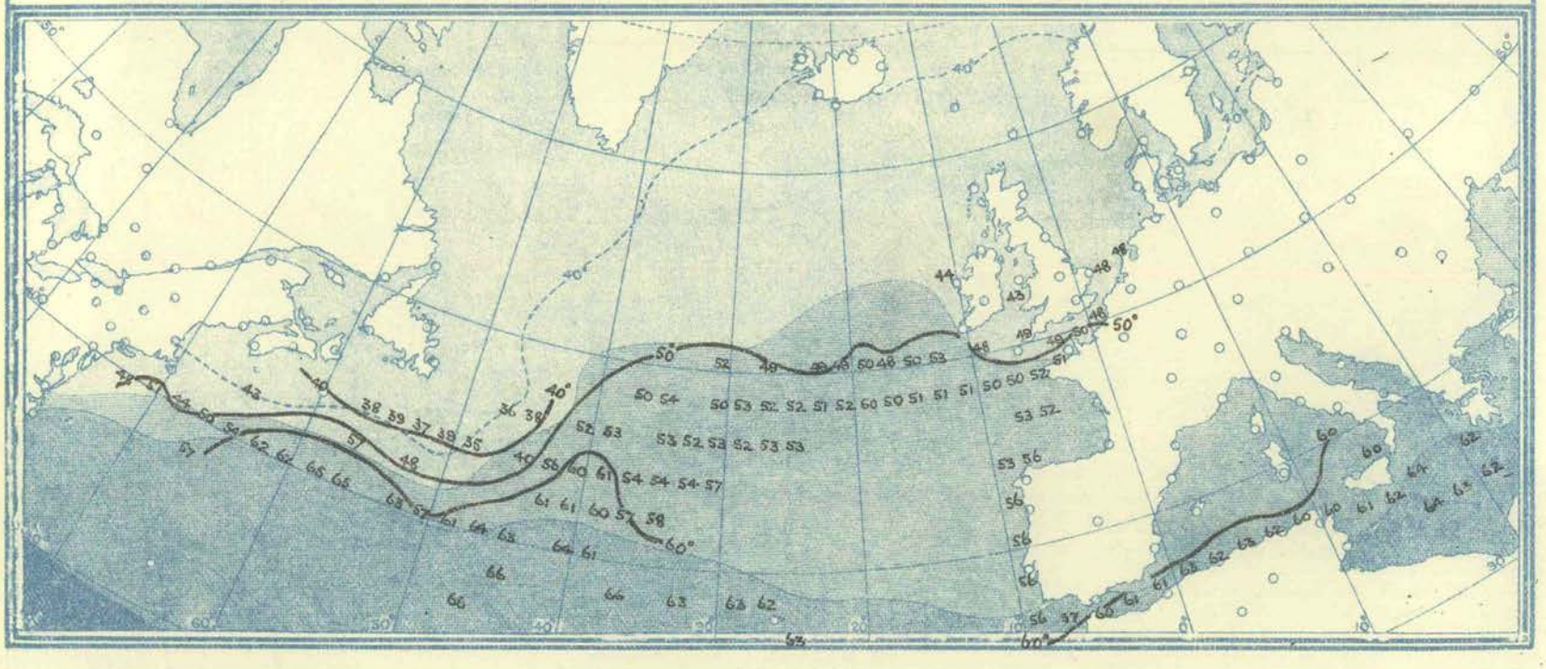


May 2nd.—A depression on the Atlantic encroached on the west and north of the United Kingdom during day, and the wind increased somewhat in force from the Southward. Rain fell over the west of these Islands; 0·4in. at Scilly and 1·1in. at Valencia. Rain was also experienced over the greater part of France, and locally in most other countries of the Continent. Thunder and lightning occurred at some stations in the south and east of England. Temperature was again high over the eastern parts of central Europe, but much lower in the west. At Hamburg the maximum was only 54°, and at Cassel 52°, but at Memel and Buda-Pesth it was as high as 79°. In a few parts of Great Britain the thermometer rose to above 55°, and in the south of France to above 60°, but at Biarritz it only touched 54°.



May 3rd.—A large depression of a "V"-shaped type passed from west to east across these Islands during day, accompanied by rain very generally. In some parts of England the measurement was more than 0·5in., on the east coast, however, there was much bright sunshine. In a few parts of England and Scotland the thermometer touched or rose above 55°, and similar readings occurred in the north and west of France. At Memel the reading was 72°, but in Germany as a whole the maxima were lower: 57° at Cassel, and 59° at Swinemünde. On the shores of the Mediterranean temperature rose to above 70°; to 75° at Oran, and 79° at Brindisi. At Bucharest the figure was 81°. Frost occurred at night in Finland and northern Russia.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 3RD MAY, 1913.



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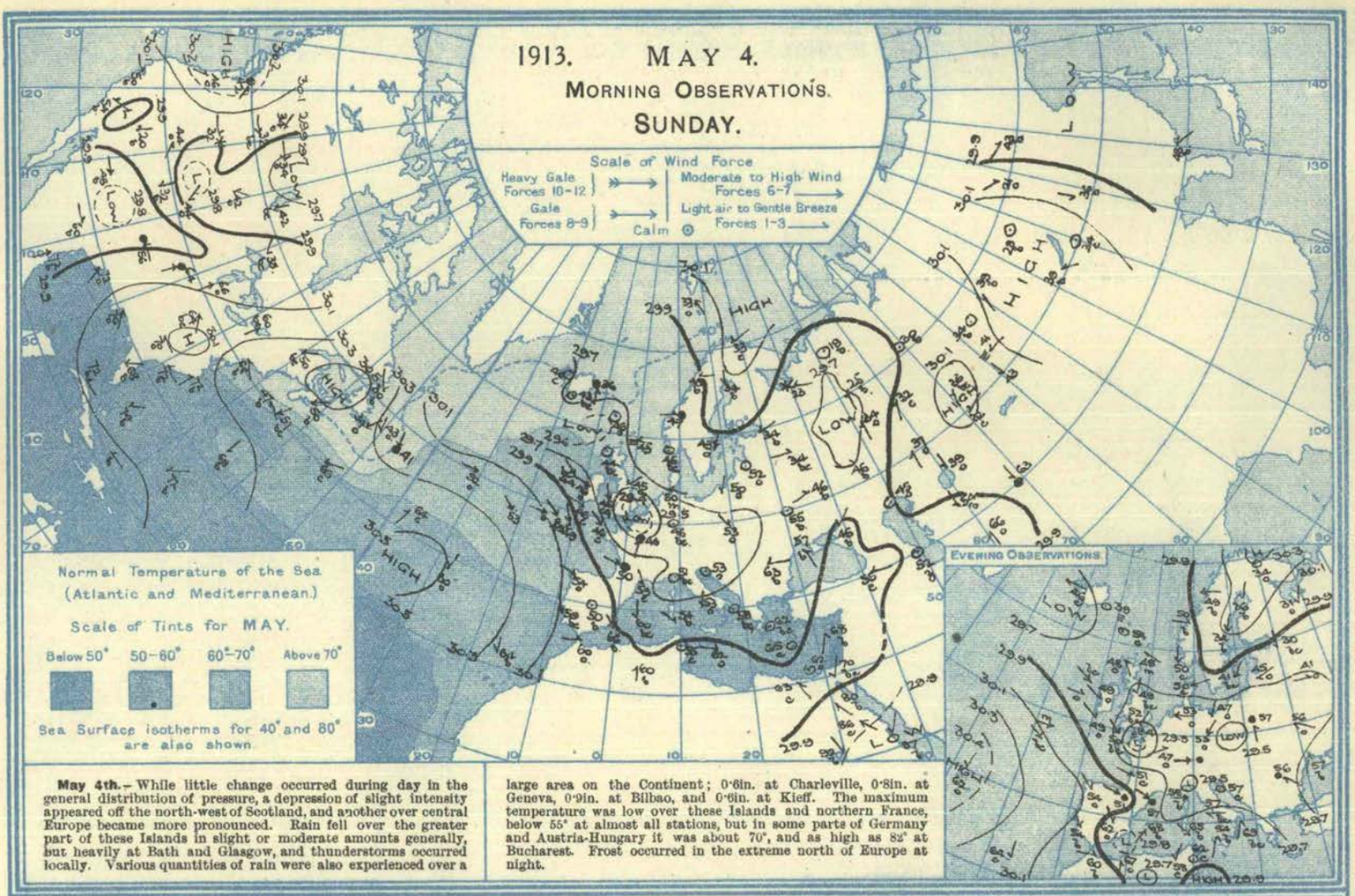
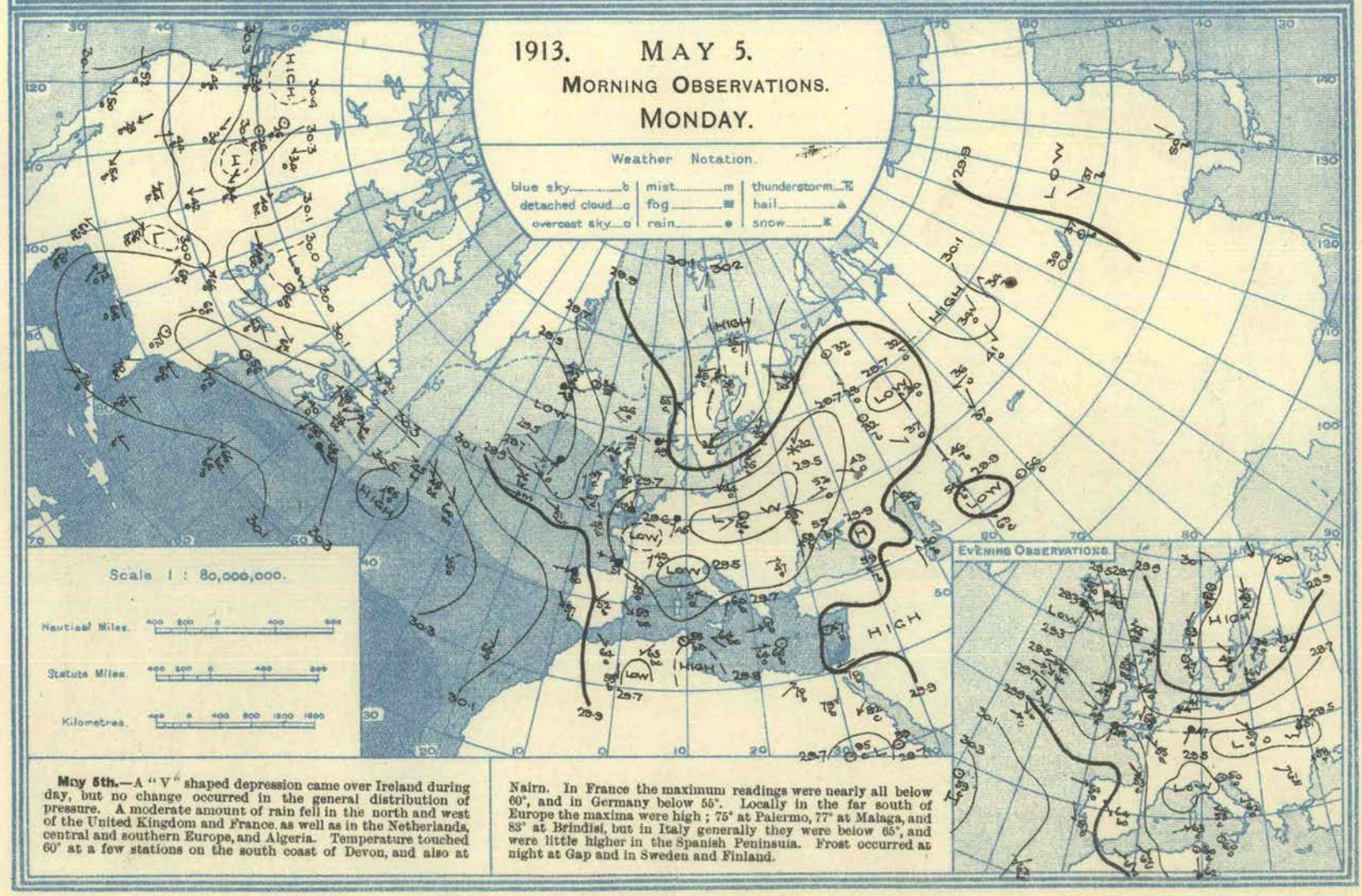
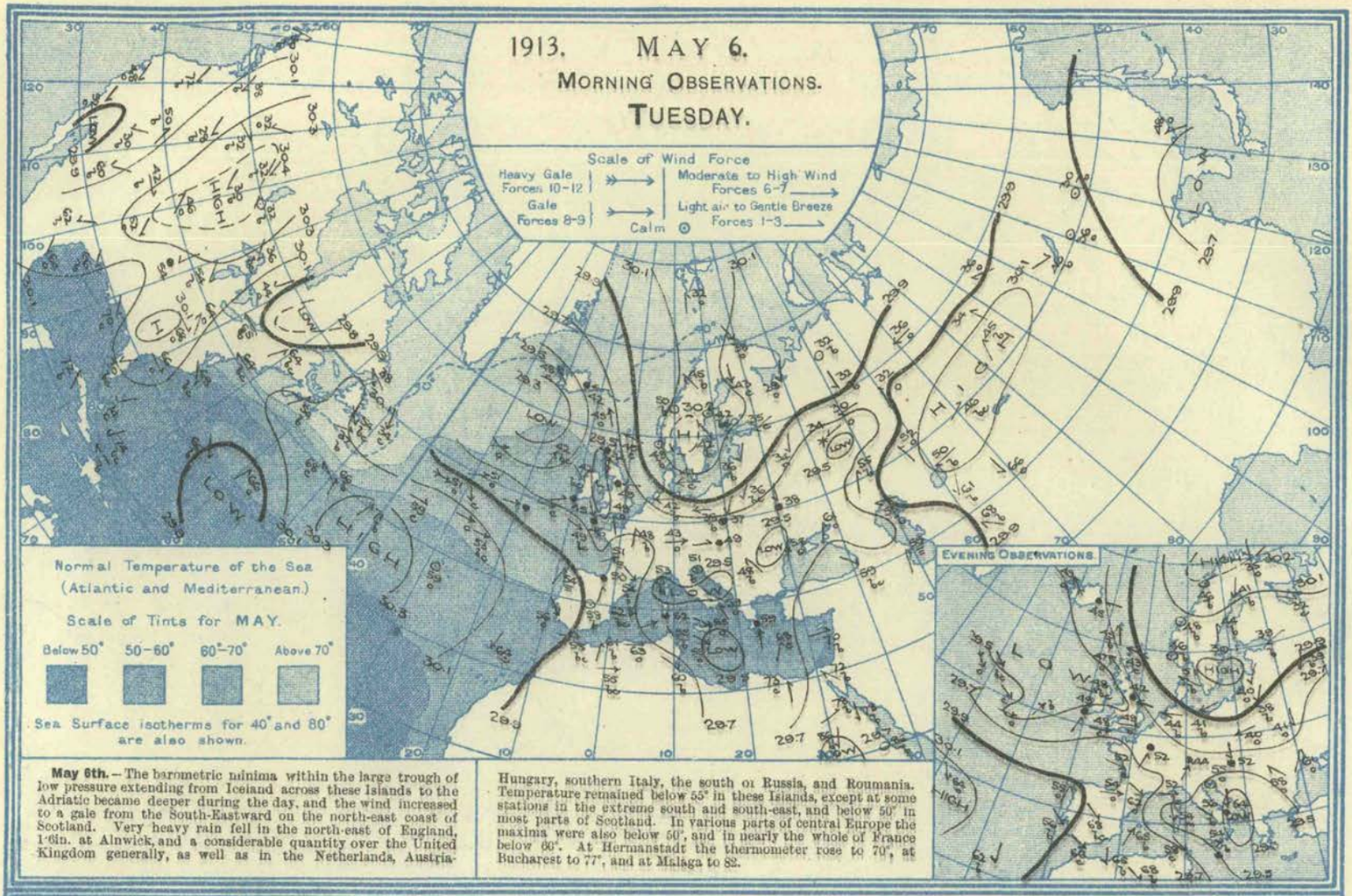


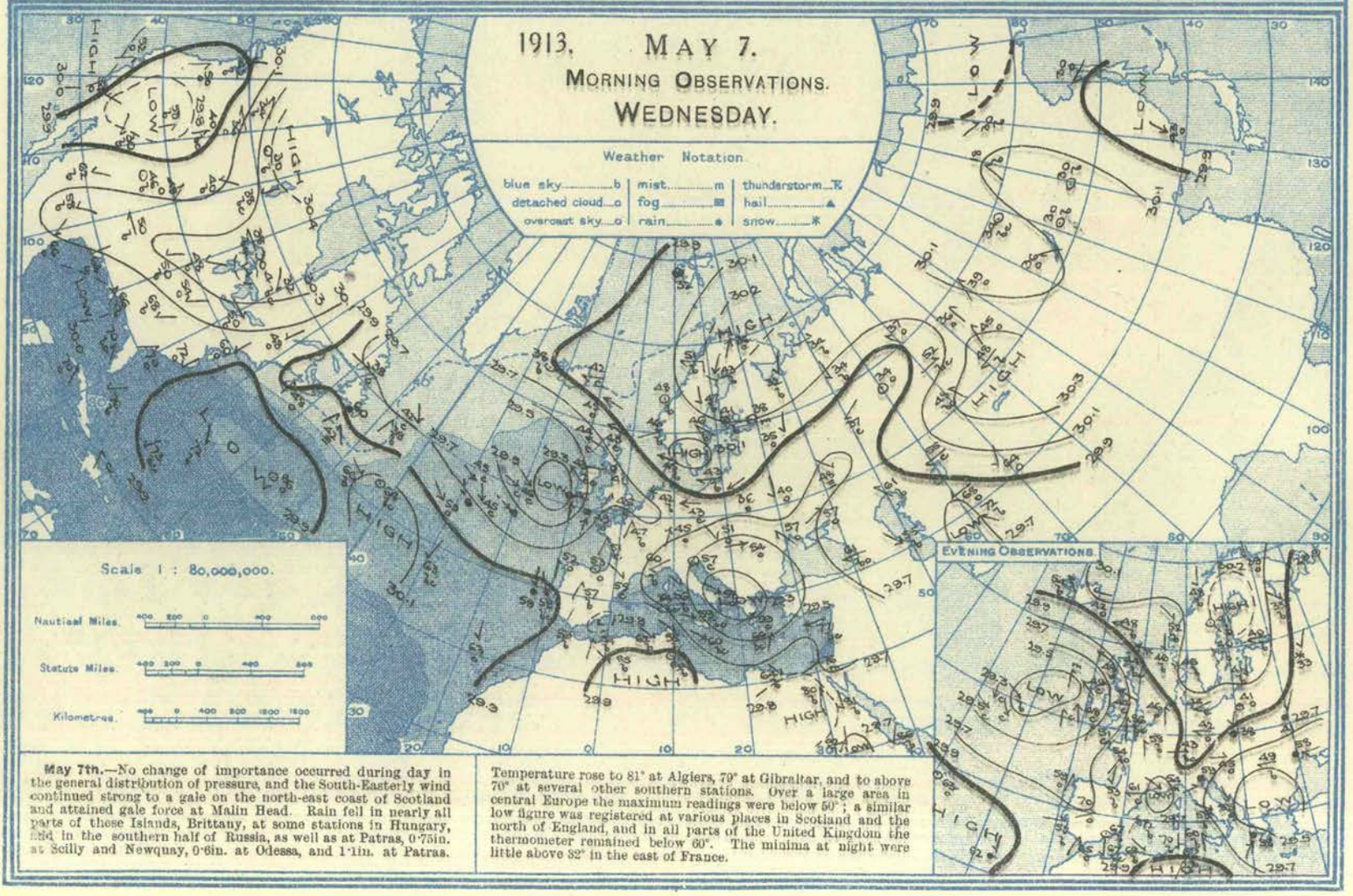
May 4th.—While little change occurred during day in the general distribution of pressure, a depression of slight intensity appeared off the north-west of Scotland, and another over central Europe became more pronounced. Rain fell over the greater part of these Islands in slight or moderate amounts generally, but heavily at Bath and Glasgow, and thunderstorms occurred locally. Various quantities of rain were also experienced over a large area on the Continent; 0·6in. at Charleville, 0·8in. at Geneva, 0·9in. at Bilbao, and 0·6in. at Kieff. The maximum temperature was low over these Islands and northern France, below 55° at almost all stations, but in some parts of Germany and Austria-Hungary it was about 70°, and as high as 82° at Bucharest. Frost occurred in the extreme north of Europe at night.



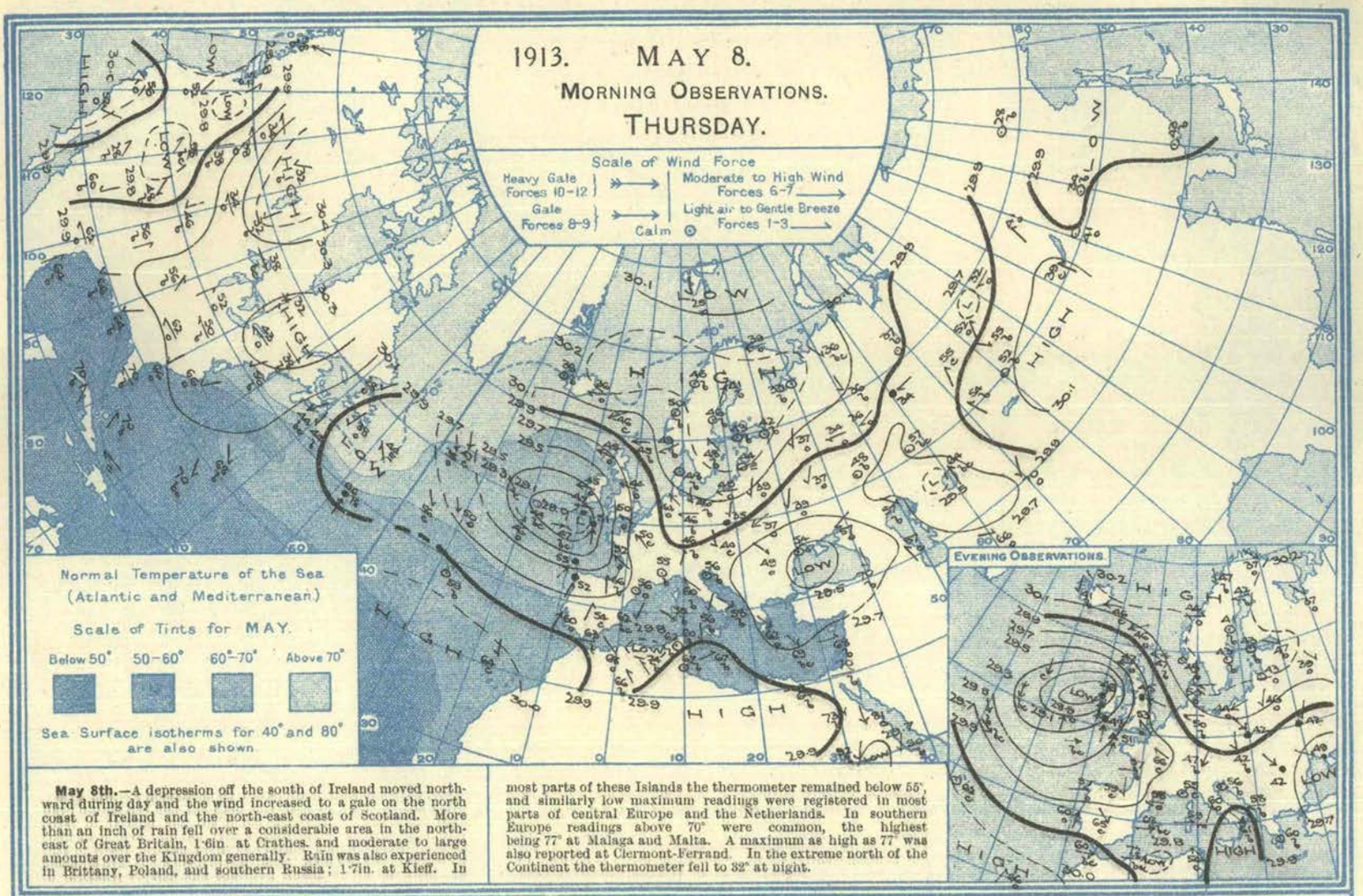
May 5th.—A "V" shaped depression came over Ireland during day, but no change occurred in the general distribution of pressure. A moderate amount of rain fell in the north and west of the United Kingdom and France, as well as in the Netherlands, central and southern Europe, and Algeria. Temperature touched 60° at a few stations on the south coast of Devon, and also at Nairn. In France the maximum readings were nearly all below 60°, and in Germany below 55°. Locally in the far south of Europe the maxima were high; 75° at Palermo, 77° at Malaga, and 83° at Brindisi, but in Italy generally they were below 65°, and were little higher in the Spanish Peninsula. Frost occurred at night at Gap and in Sweden and Finland.



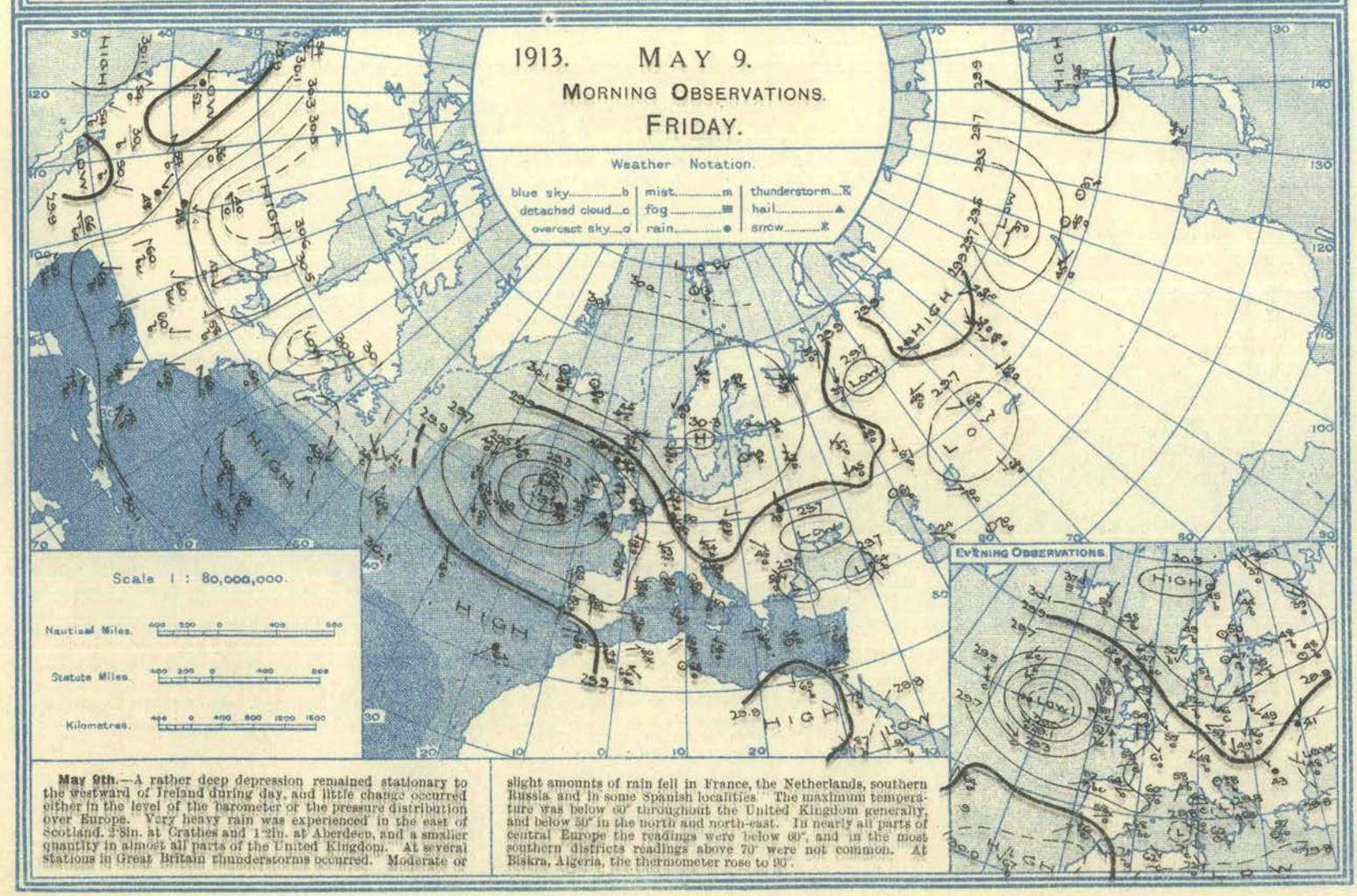
May 6th.—The barometric minima within the large trough of low pressure extending from Iceland across these Islands to the Adriatic became deeper during the day, and the wind increased to a gale from the South-Eastward on the north-east coast of Scotland. Very heavy rain fell in the north-east of England, 1·6in. at Alnwick, and a considerable quantity over the United Kingdom generally, as well as in the Netherlands, Austria-Hungary, southern Italy, the south of Russia, and Roumania. Temperature remained below 55° in these Islands, except at some stations in the extreme south and south-east, and below 50° in most parts of Scotland. In various parts of central Europe the maxima were also below 50°, and in nearly the whole of France below 60°. At Hermanstadt the thermometer rose to 70°, at Bucharest to 77°, and at Malaga to 82.



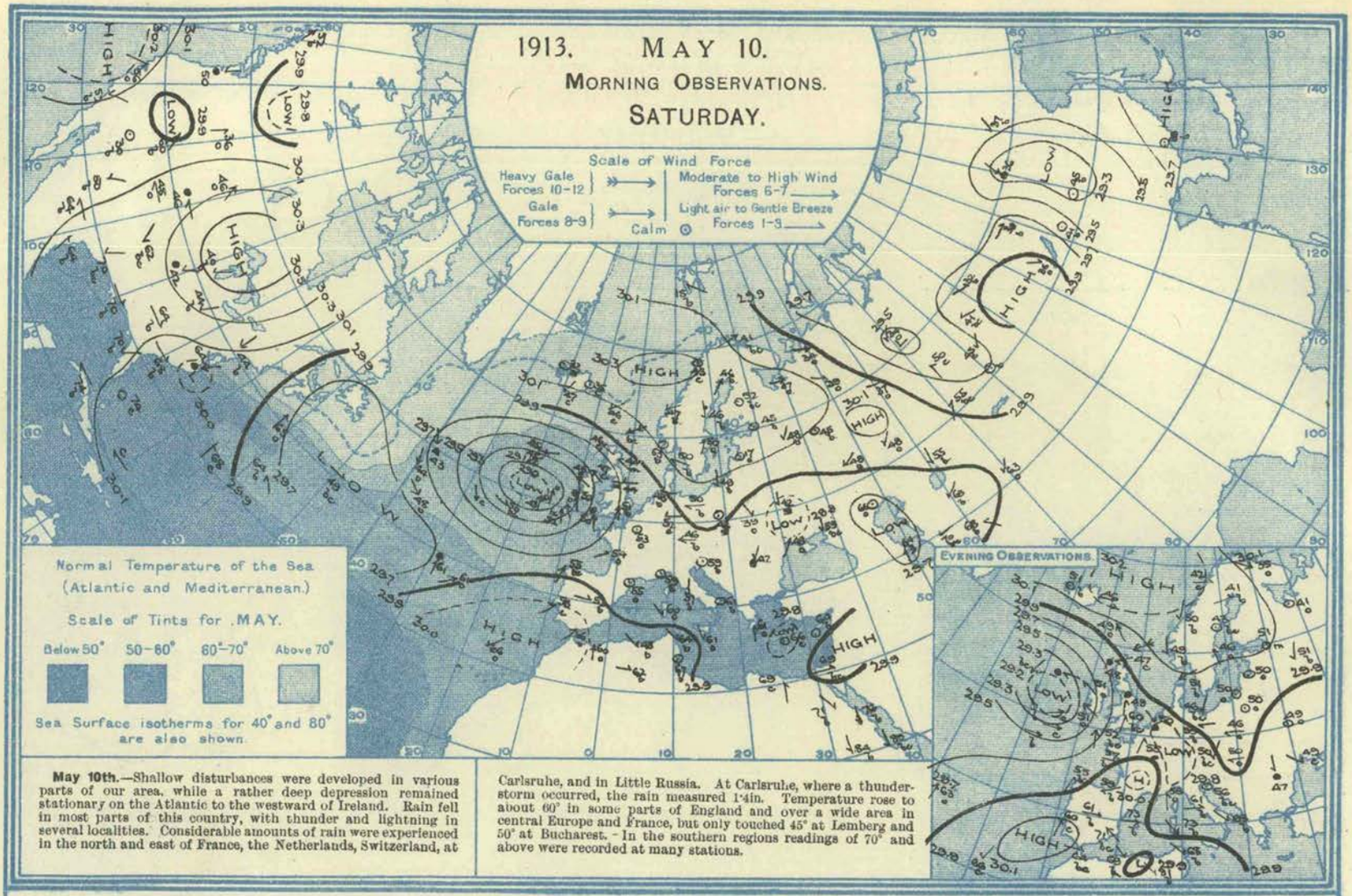
May 7th.—No change of importance occurred during day in the general distribution of pressure, and the South-Easterly wind continued strong to a gale on the north-east coast of Scotland and attained gale force at Malin Head. Rain fell in nearly all parts of these Islands, Brittany, at some stations in Hungary, and in the southern half of Russia, as well as at Patras, 0·75in. at Scilly and Newquay, 0·6in. at Odessa, and 1·1in. at Patras. Temperature rose to 81° at Algiers, 79° at Gibraltar, and to above 70° at several other southern stations. Over a large area in central Europe the maximum readings were below 50°; a similar low figure was registered at various places in Scotland and the north of England, and in all parts of the United Kingdom the thermometer remained below 60°. The minima at night were little above 32° in the east of France.



May 8th.—A depression off the south of Ireland moved northward during day and the wind increased to a gale on the north coast of Ireland and the north-east coast of Scotland. More than an inch of rain fell over a considerable area in the north-east of Great Britain, 1·6in. at Crathes, and moderate to large amounts over the Kingdom generally. Rain was also experienced in Brittany, Poland, and southern Russia; 1·7in. at Kieff. In most parts of these Islands the thermometer remained below 55°, and similarly low maximum readings were registered in most parts of central Europe and the Netherlands. In southern Europe readings above 70° were common, the highest being 77° at Malaga and Malta. A maximum as high as 77° was also reported at Clermont-Ferrand. In the extreme north of the Continent the thermometer fell to 32° at night.

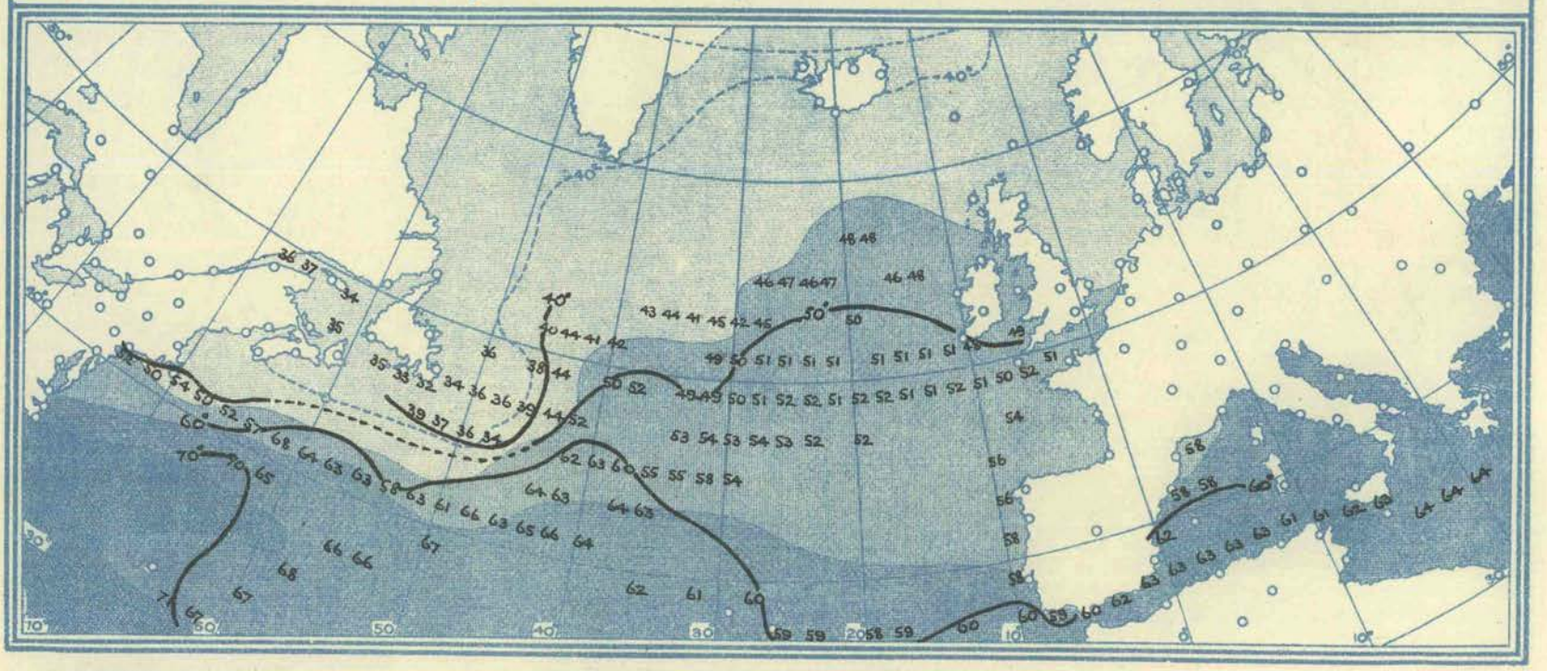


May 9th.—A rather deep depression remained stationary to the westward of Ireland during day, and little change occurred either in the level of the barometer or the pressure distribution over Europe. Very heavy rain was experienced in the east of Scotland, 2·8in. at Crathes and 1·2in. at Aberdeen, and a smaller quantity in almost all parts of the United Kingdom. At several stations in Great Britain thunderstorms occurred. Moderate or slight amounts of rain fell in France, the Netherlands, southern Russia, and in some Spanish localities. The maximum temperature was below 60° throughout the United Kingdom generally, and below 50° in the north and north-east. In nearly all parts of central Europe the readings were below 60°, and in the most southern districts readings above 70° were not common. At Biskra, Algeria, the thermometer rose to 90°.



May 10th.—Shallow disturbances were developed in various parts of our area, while a rather deep depression remained stationary on the Atlantic to the westward of Ireland. Rain fell in most parts of this country, with thunder and lightning in several localities. Considerable amounts of rain were experienced in the north and east of France, the Netherlands, Switzerland, at Carlsruhe, and in Little Russia. At Carlsruhe, where a thunderstorm occurred, the rain measured 1·4in. Temperature rose to about 60° in some parts of England and over a wide area in central Europe and France, but only touched 45° at Lemberg and 50° at Bucharest. In the southern regions readings of 70° and above were recorded at many stations.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 10TH. MAY, 1913.



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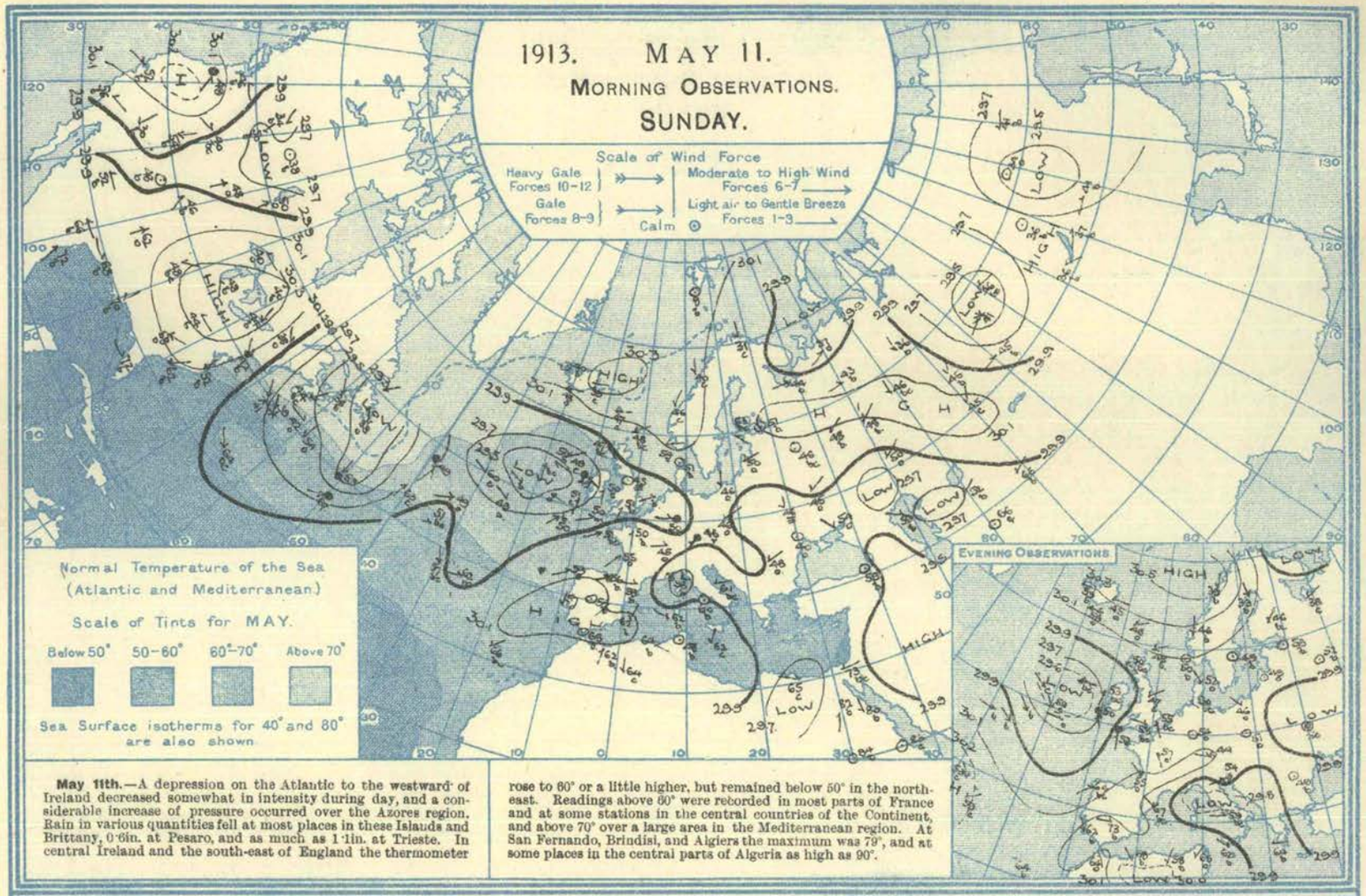
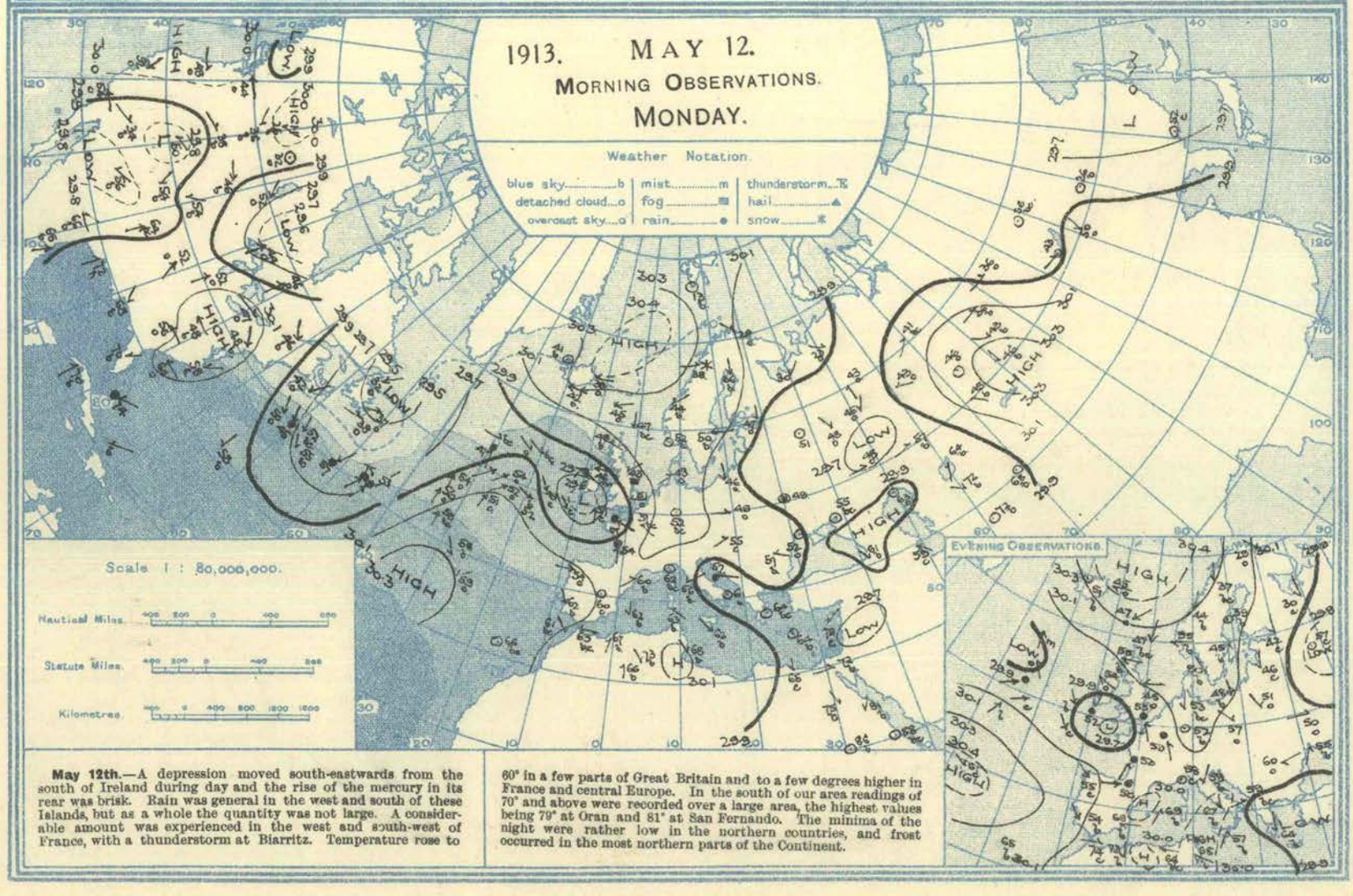
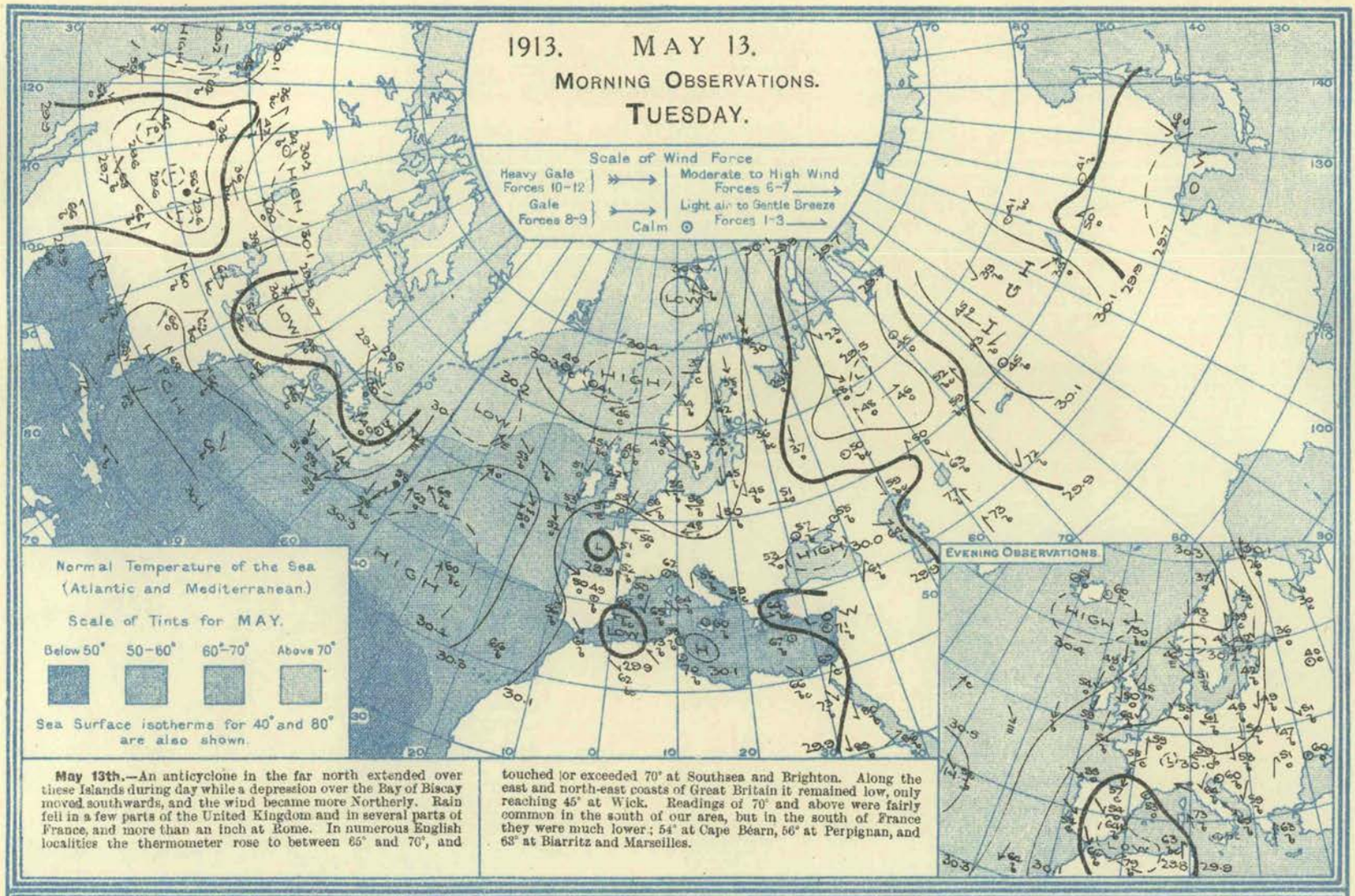


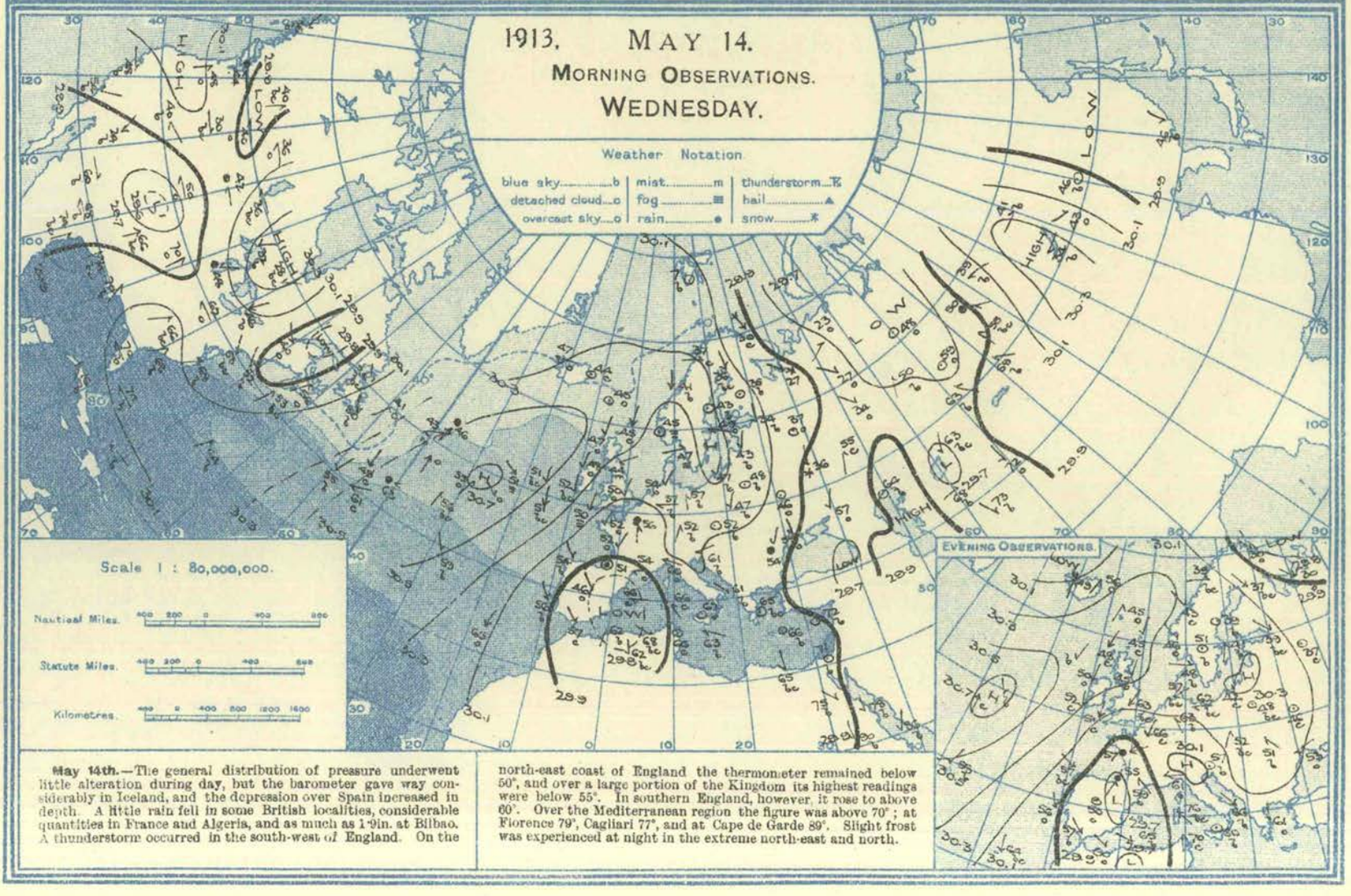
May 11th.—A depression on the Atlantic to the westward of Ireland decreased somewhat in intensity during day, and a considerable increase of pressure occurred over the Azores region. Rain in various quantities fell at most places in these Islands and Brittany, 0·6in. at Pesaro, and as much as 1·1in. at Trieste. In central Ireland and the south-east of England the thermometer rose to 60° or a little higher, but remained below 50° in the north-east. Readings above 60° were recorded in most parts of France and at some stations in the central countries of the Continent, and above 70° over a large area in the Mediterranean region. At San Fernando, Brindisi, and Algiers the maximum was 79°, and at some places in the central parts of Algeria as high as 90°.



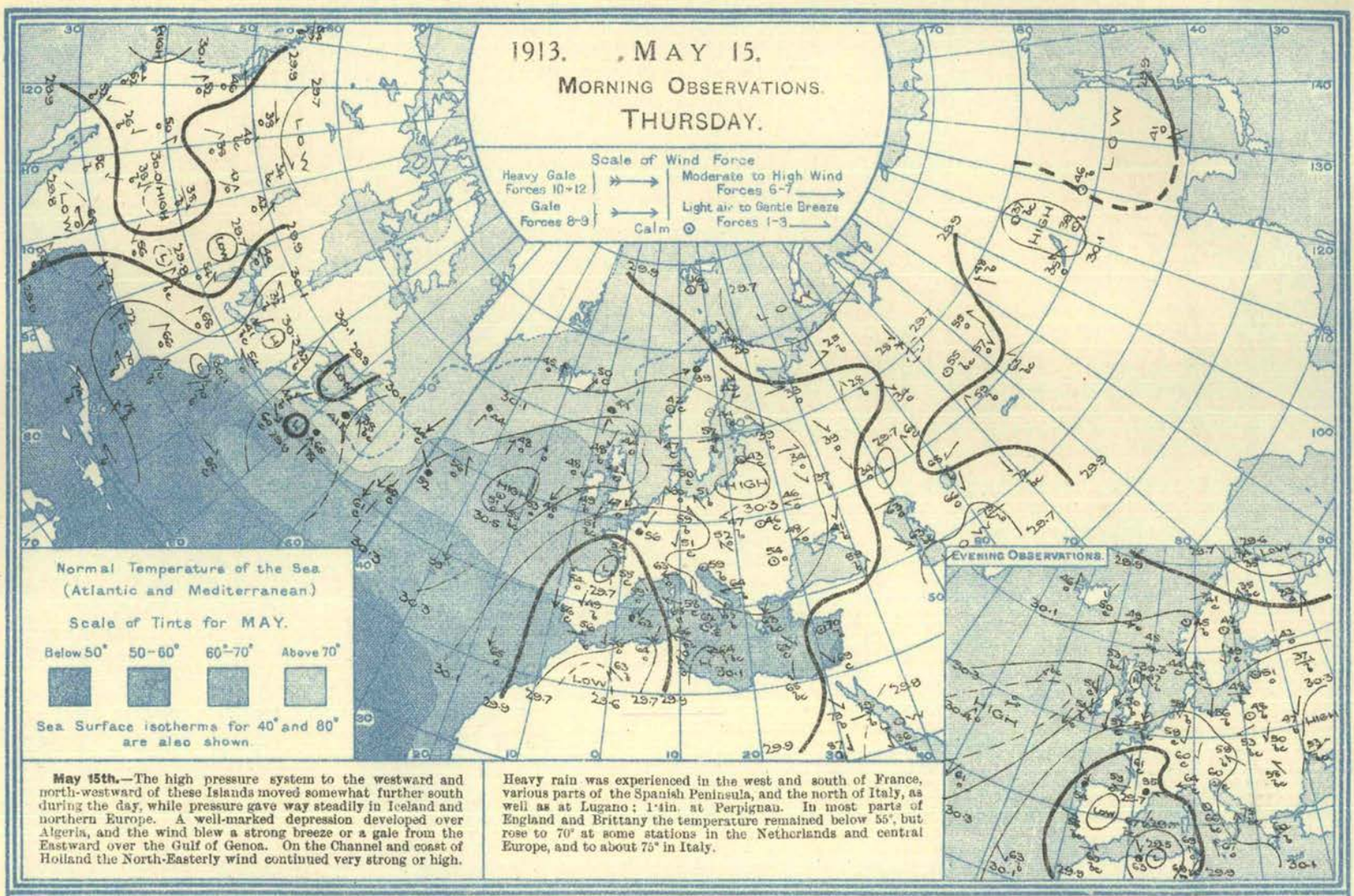
May 12th.—A depression moved south-eastwards from the south of Ireland during day and the rise of the mercury in its rear was brisk. Rain was general in the west and south of these Islands, but as a whole the quantity was not large. A considerable amount was experienced in the west and south-west of France, with a thunderstorm at Biarritz. Temperature rose to 60° in a few parts of Great Britain and to a few degrees higher in France and central Europe. In the south of our area readings of 70° and above were recorded over a large area, the highest values being 79° at Oran and 81° at San Fernando. The minima of the night were rather low in the northern countries, and frost occurred in the most northern parts of the Continent.



May 13th.—An anticyclone in the far north extended over these Islands during day while a depression over the Bay of Biscay moved southwards, and the wind became more Northerly. Rain fell in a few parts of the United Kingdom and in several parts of France, and more than an inch at Rome. In numerous English localities the thermometer rose to between 65° and 70°, and touched or exceeded 70° at Southsea and Brighton. Along the east and north-east coasts of Great Britain it remained low, only reaching 45° at Wick. Readings of 70° and above were fairly common in the south of our area, but in the south of France they were much lower; 54° at Cape Béarn, 56° at Perpignan, and 63° at Biarritz and Marseilles.

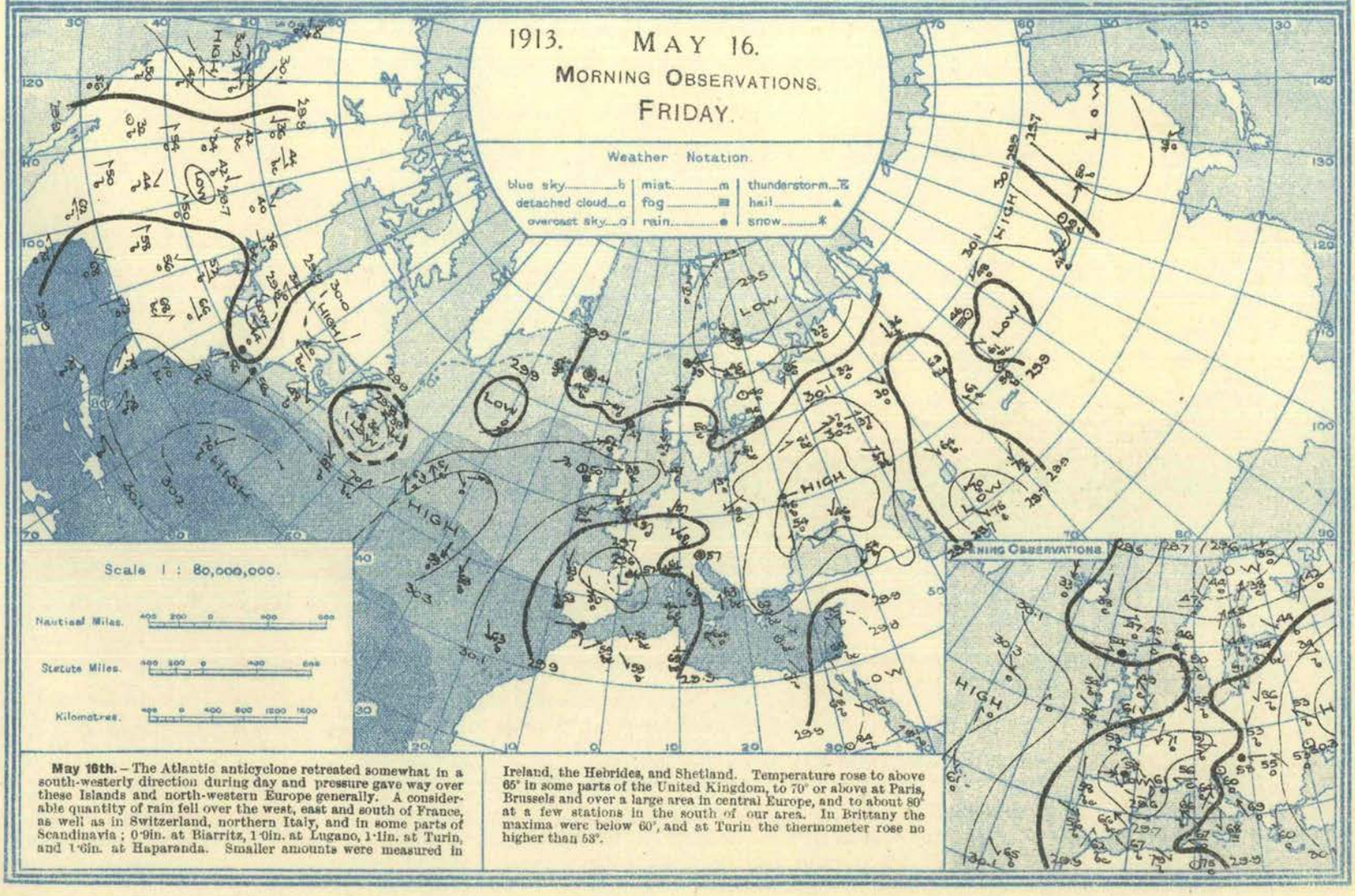


May 14th.—The general distribution of pressure underwent little alteration during day, but the barometer gave way considerably in Iceland, and the depression over Spain increased in depth. A little rain fell in some British localities, considerable quantities in France and Algeria, and as much as 1·9in. at Bilbao. A thunderstorm occurred in the south-west of England. On the north-east coast of England the thermometer remained below 50°, and over a large portion of the Kingdom its highest readings were below 55°. In southern England, however, it rose to above 60°. Over the Mediterranean region the figure was above 70°; at Florence 79°, Cagliari 77°, and at Cape de Garde 89°. Slight frost was experienced at night in the extreme north-east and north.

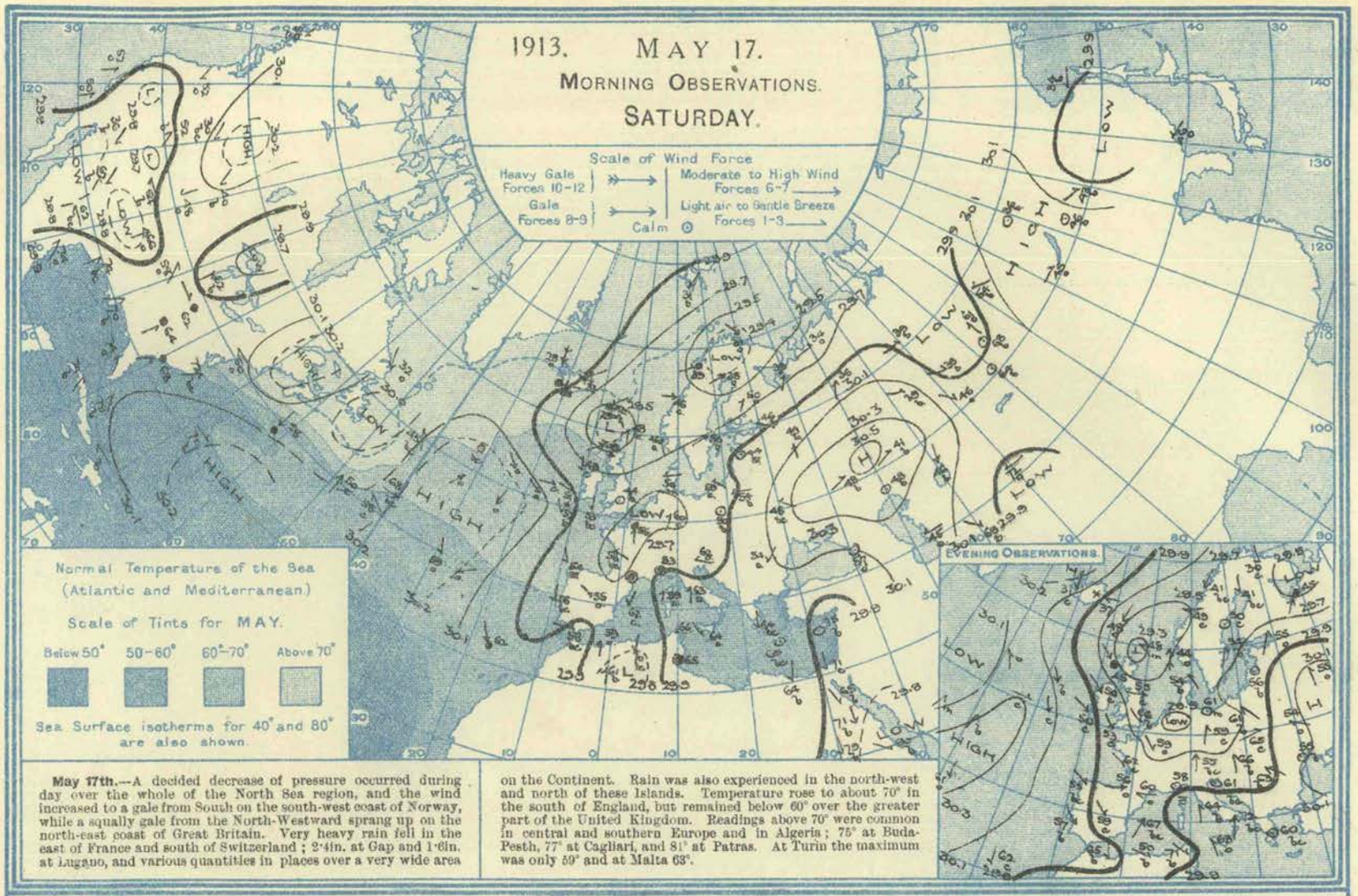


May 15th.—The high pressure system to the westward and north-westward of these Islands moved somewhat further south during the day, while pressure gave way steadily in Iceland and northern Europe. A well-marked depression developed over Algeria, and the wind blew a strong breeze or a gale from the Eastward over the Gulf of Genoa. On the Channel and coast of Holland the North-Easterly wind continued very strong or high.

Heavy rain was experienced in the west and south of France, various parts of the Spanish Peninsula, and the north of Italy, as well as at Lugano: 1·1in. at Perpignan. In most parts of England and Brittany the temperature remained below 55°, but rose to 70° at some stations in the Netherlands and central Europe, and to about 75° in Italy.

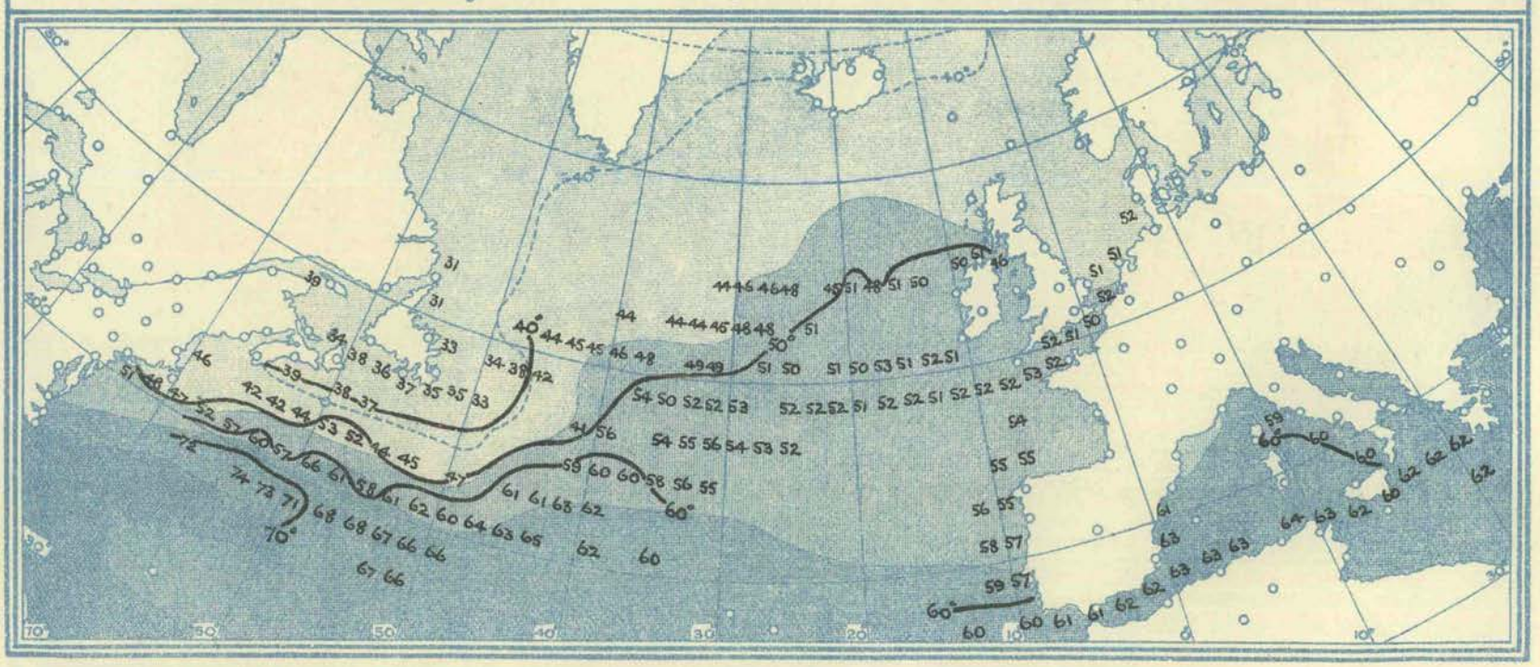


May 16th.—The Atlantic anticyclone retreated somewhat in a south-westerly direction during day and pressure gave way over these Islands and north-western Europe generally. A considerable quantity of rain fell over the west, east and south of France, as well as in Switzerland, northern Italy, and in some parts of Scandinavia; 0·9in. at Biarritz, 1·0in. at Lugano, 1·1in. at Turin, and 1·6in. at Haparanda. Smaller amounts were measured in Ireland, the Hebrides, and Shetland. Temperature rose to above 65° in some parts of the United Kingdom, to 70° or above at Paris, Brussels and over a large area in central Europe, and to about 80° at a few stations in the south of our area. In Brittany the maxima were below 60°, and at Turin the thermometer rose no higher than 53°.



May 17th.—A decided decrease of pressure occurred during day over the whole of the North Sea region, and the wind increased to a gale from South on the south-west coast of Norway, while a squally gale from the North-Westward sprang up on the north-east coast of Great Britain. Very heavy rain fell in the east of France and south of Switzerland; 2·4in. at Gap and 1·6in. at Lugano, and various quantities in places over a very wide area on the Continent. Rain was also experienced in the north-west and north of these Islands. Temperature rose to about 70° in the south of England, but remained below 60° over the greater part of the United Kingdom. Readings above 70° were common in central and southern Europe and in Algeria; 75° at Buda-Pesth, 77° at Cagliari, and 81° at Patras. At Turin the maximum was only 59° and at Malta 63°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 17TH MAY, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain and in the Azores. These times refer to Greenwich Mean Time.

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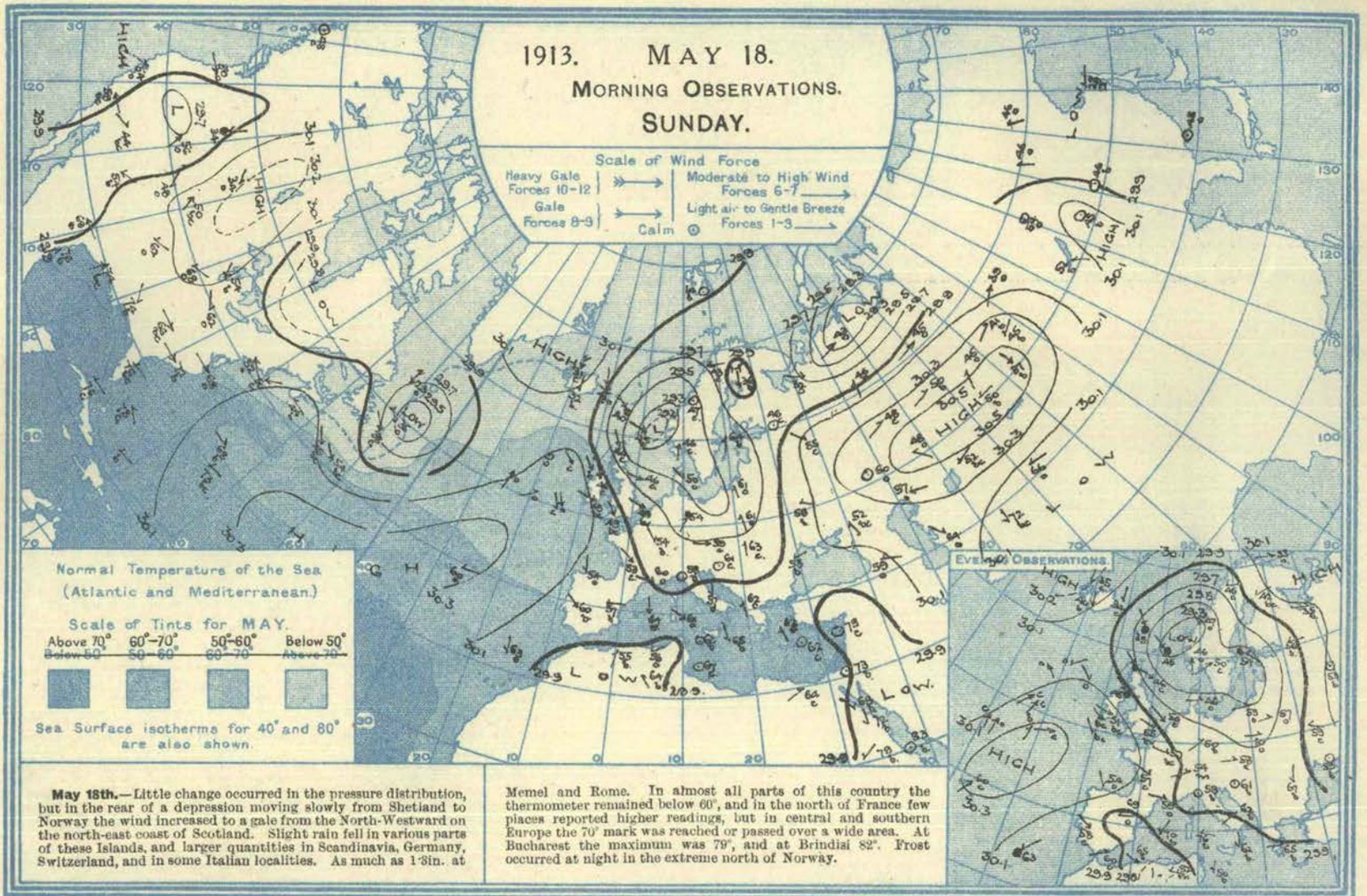
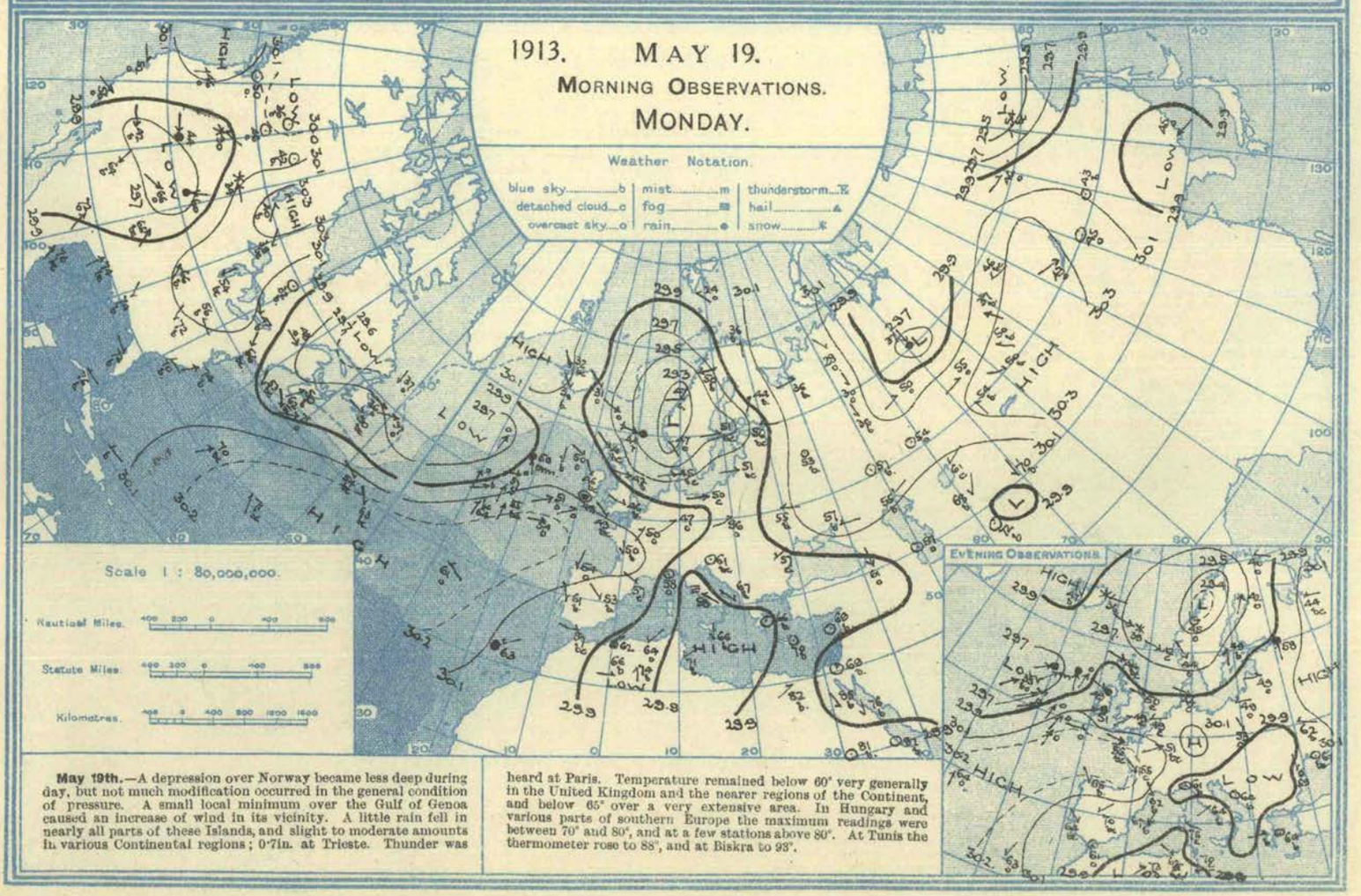
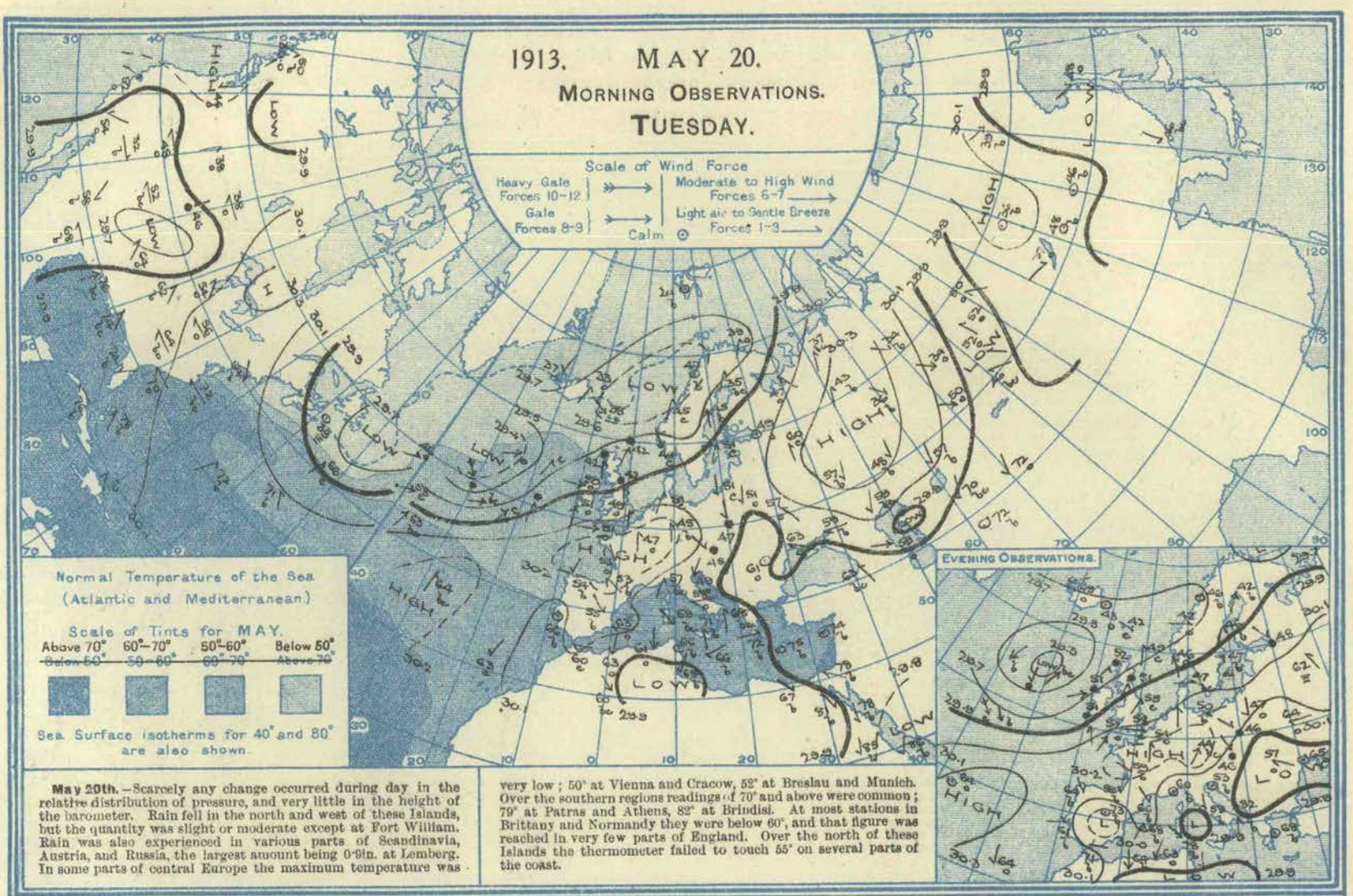


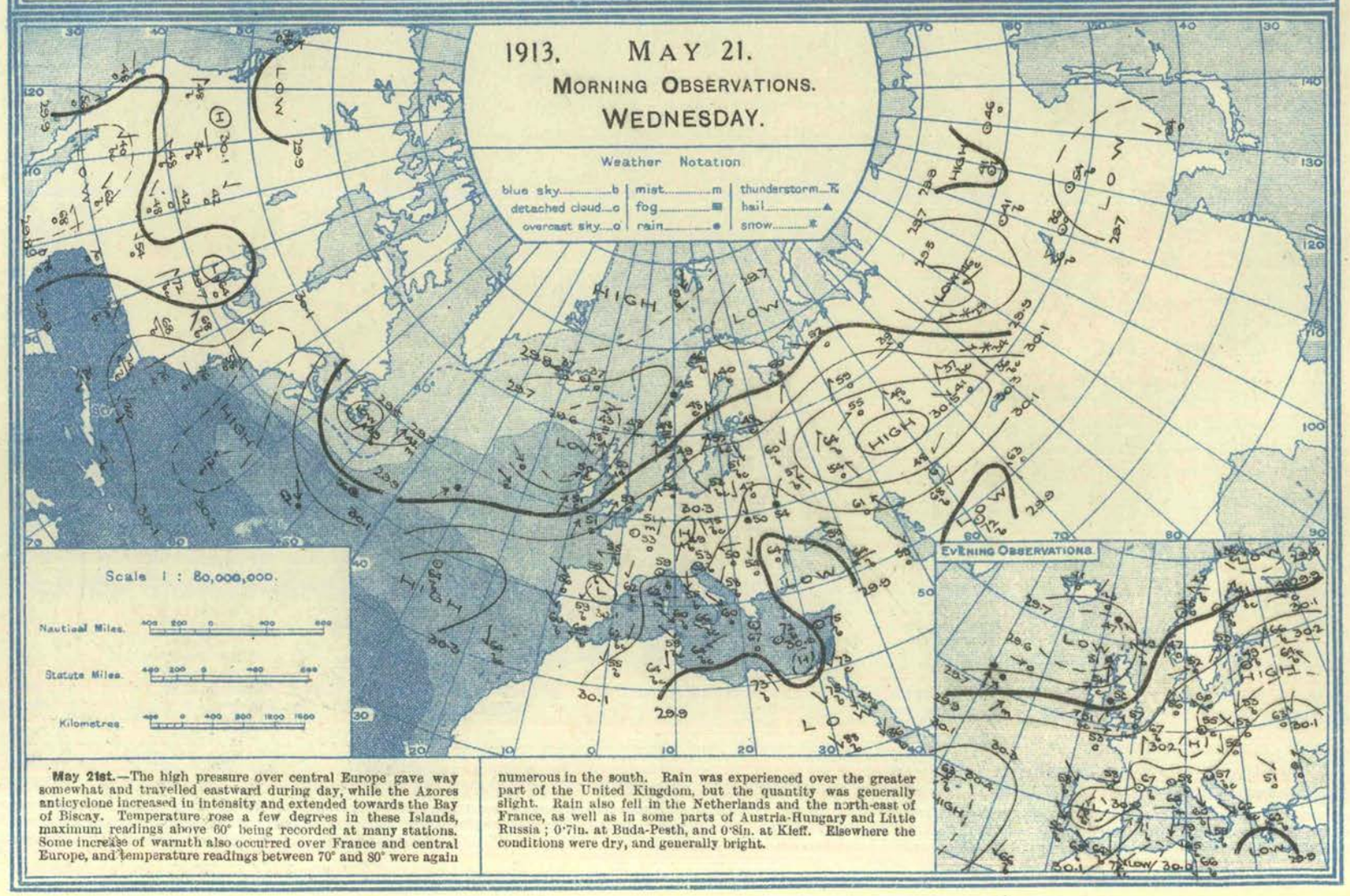
May 18th.—Little change occurred in the pressure distribution, but in the rear of a depression moving slowly from Shetland to Norway the wind increased to a gale from the North-Westward on the north-east coast of Scotland. Slight rain fell in various parts of these Islands, and larger quantities in Scandinavia, Germany, Switzerland, and in some Italian localities. As much as 1·3in. at Memel and Rome. In almost all parts of this country the thermometer remained below 60°, and in the north of France few places reported higher readings, but in central and southern Europe the 70° mark was reached or passed over a wide area. At Bucharest the maximum was 79°, and at Brindisi 82°. Frost occurred at night in the extreme north of Norway.



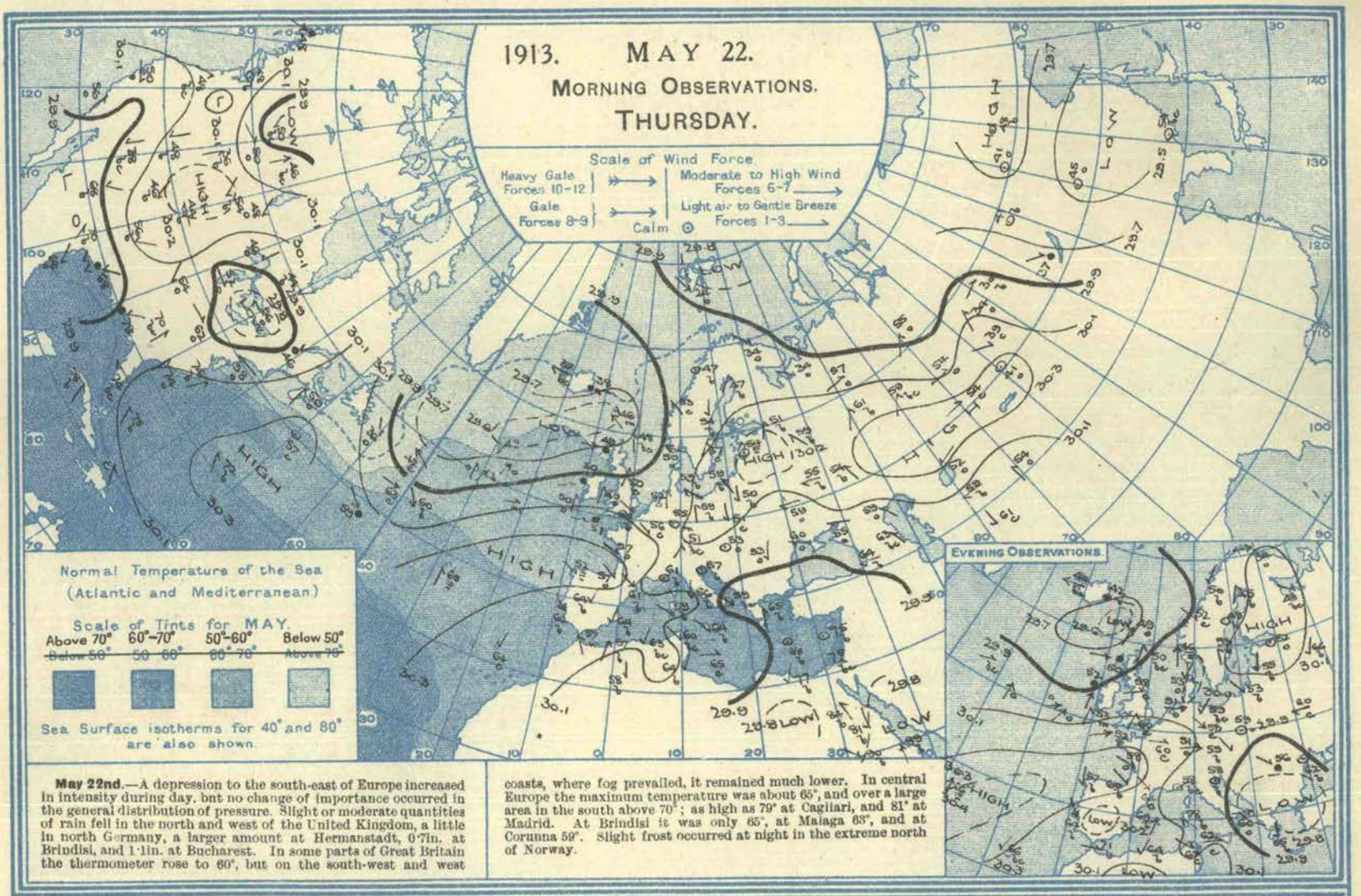
May 19th.—A depression over Norway became less deep during day, but not much modification occurred in the general condition of pressure. A small local minimum over the Gulf of Genoa caused an increase of wind in its vicinity. A little rain fell in nearly all parts of these Islands, and slight to moderate amounts in various Continental regions; 0·7in. at Trieste. Thunder was heard at Paris. Temperature remained below 60° very generally in the United Kingdom and the nearer regions of the Continent, and below 65° over a very extensive area. In Hungary and various parts of southern Europe the maximum readings were between 70° and 80°, and at a few stations above 80°. At Tunis the thermometer rose to 88°, and at Biskra to 93°.



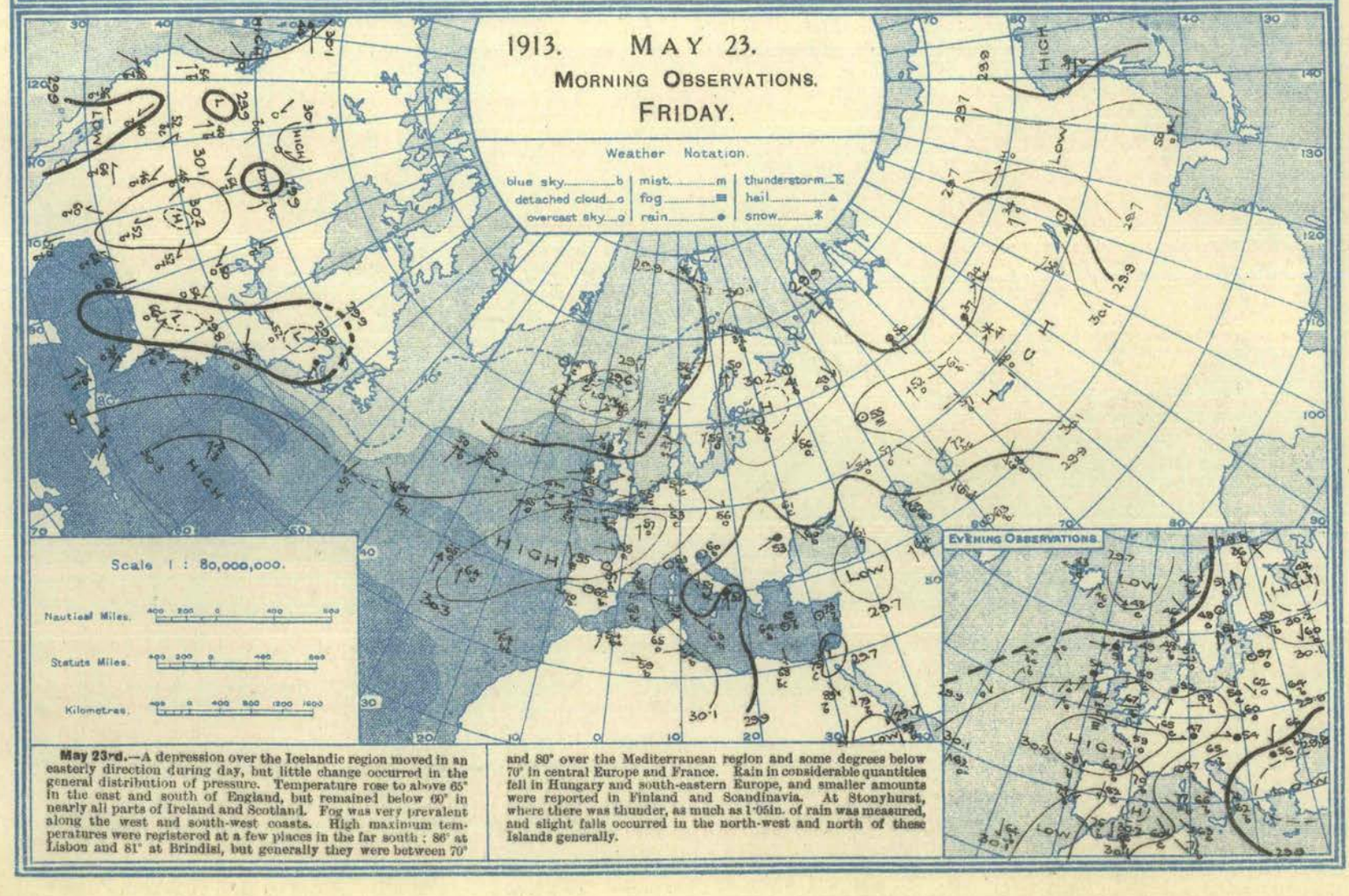
May 20th.—Scarcely any change occurred during day in the relative distribution of pressure, and very little in the height of the barometer. Rain fell in the north and west of these Islands, but the quantity was slight or moderate except at Fort William. Rain was also experienced in various parts of Scandinavia, Austria, and Russia, the largest amount being 0·6in. at Lemberg. In some parts of central Europe the maximum temperature was very low; 50° at Vienna and Cracow, 52° at Breslau and Munich. Over the southern regions readings of 70° and above were common; 79° at Patras and Athens, 82° at Brindisi. At most stations in Brittany and Normandy they were below 60°, and that figure was reached in very few parts of England. Over the north of these Islands the thermometer failed to touch 55° on several parts of the coast.



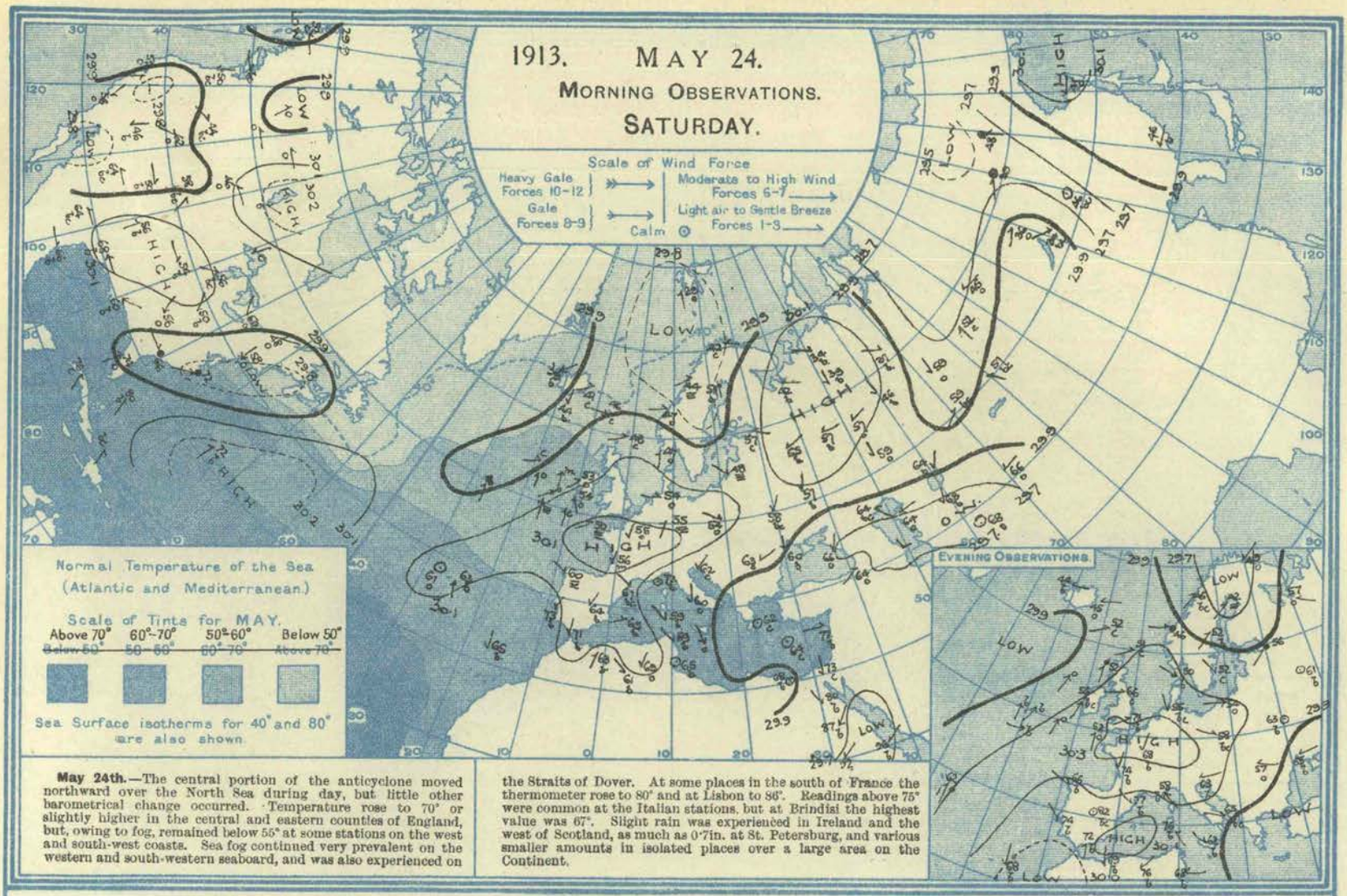
May 21st.—The high pressure over central Europe gave way somewhat and travelled eastward during day, while the Azores anticyclone increased in intensity and extended towards the Bay of Biscay. Temperature rose a few degrees in these Islands, maximum readings above 60° being recorded at many stations. Some increase of warmth also occurred over France and central Europe, and temperature readings between 70° and 80° were again numerous in the south. Rain was experienced over the greater part of the United Kingdom, but the quantity was generally slight. Rain also fell in the Netherlands and the north-east of France, as well as in some parts of Austria-Hungary and Little Russia; 0·71in. at Buda-Pesth, and 0·8in. at Kieff. Elsewhere the conditions were dry, and generally bright.



May 22nd.—A depression to the south-east of Europe increased in intensity during day, but no change of importance occurred in the general distribution of pressure. Slight or moderate quantities of rain fell in the north and west of the United Kingdom, a little in north Germany, a larger amount at Hermanstadt, 0·7in. at Brindisi, and 1·1in. at Bucharest. In some parts of Great Britain the thermometer rose to 60°, but on the south-west and west coasts, where fog prevailed, it remained much lower. In central Europe the maximum temperature was about 65°, and over a large area in the south above 70°; as high as 79° at Cagliari, and 81° at Madrid. At Brindisi it was only 65°, at Malaga 63°, and at Corunna 59°. Slight frost occurred at night in the extreme north of Norway.

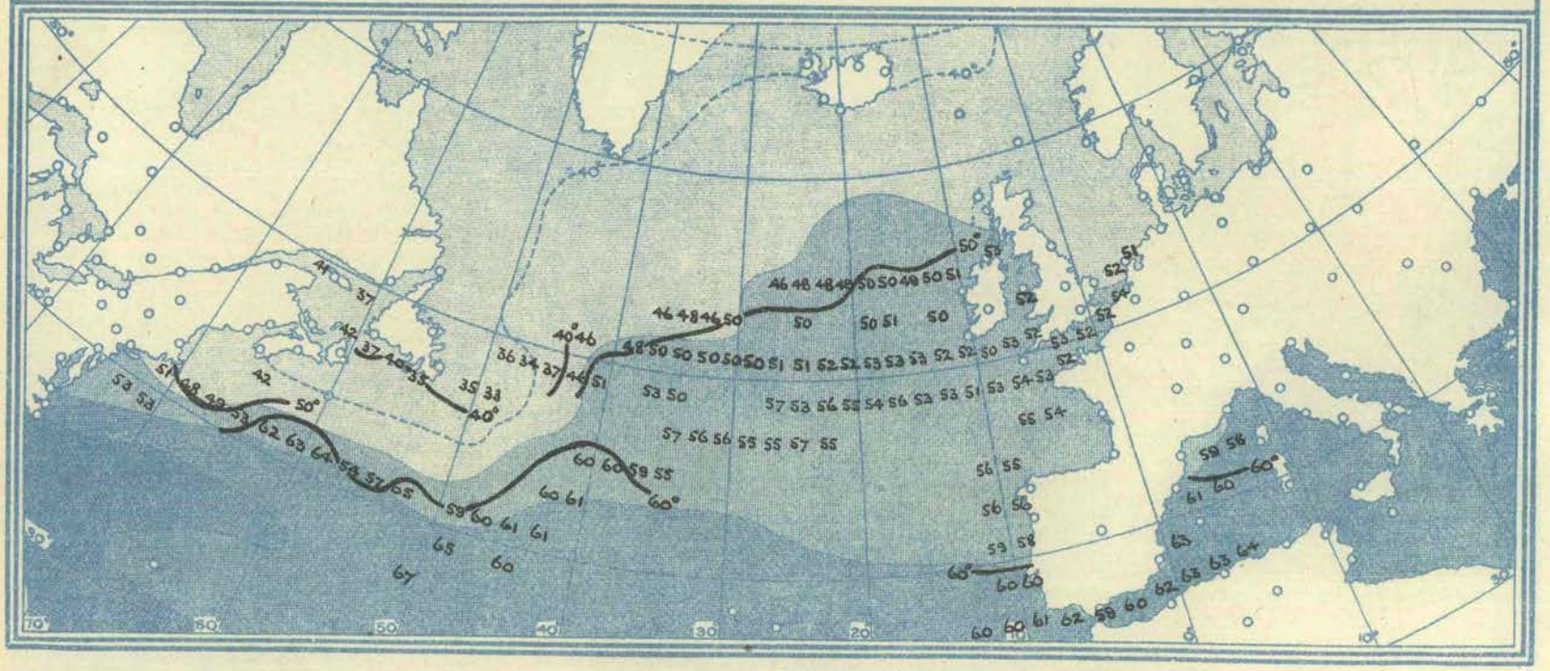


May 23rd.—A depression over the Icelandic region moved in an easterly direction during day, but little change occurred in the general distribution of pressure. Temperature rose to above 65° in the east and south of England, but remained below 60° in nearly all parts of Ireland and Scotland. Fog was very prevalent along the west and south-west coasts. High maximum temperatures were registered at a few places in the far south; 86° at Lisbon and 81° at Brindisi, but generally they were between 70° and 80° over the Mediterranean region and some degrees below 70° in central Europe and France. Rain in considerable quantities fell in Hungary and south-eastern Europe, and smaller amounts were reported in Finland and Scandinavia. At Stonyhurst, where there was thunder, as much as 1·05in. of rain was measured, and slight falls occurred in the north-west and north of these Islands generally.



May 24th.—The central portion of the anticyclone moved northward over the North Sea during day, but little other barometrical change occurred. Temperature rose to 70° or slightly higher in the central and eastern counties of England, but, owing to fog, remained below 55° at some stations on the west and south-west coasts. Sea fog continued very prevalent on the western and south-western seaboard, and was also experienced on the Straits of Dover. At some places in the south of France the thermometer rose to 80° and at Lisbon to 86°. Readings above 75° were common at the Italian stations, but at Brindisi the highest value was 67°. Slight rain was experienced in Ireland and the west of Scotland, as much as 0·7in. at St. Petersburg, and various smaller amounts in isolated places over a large area on the Continent.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 24TH MAY, 1913.



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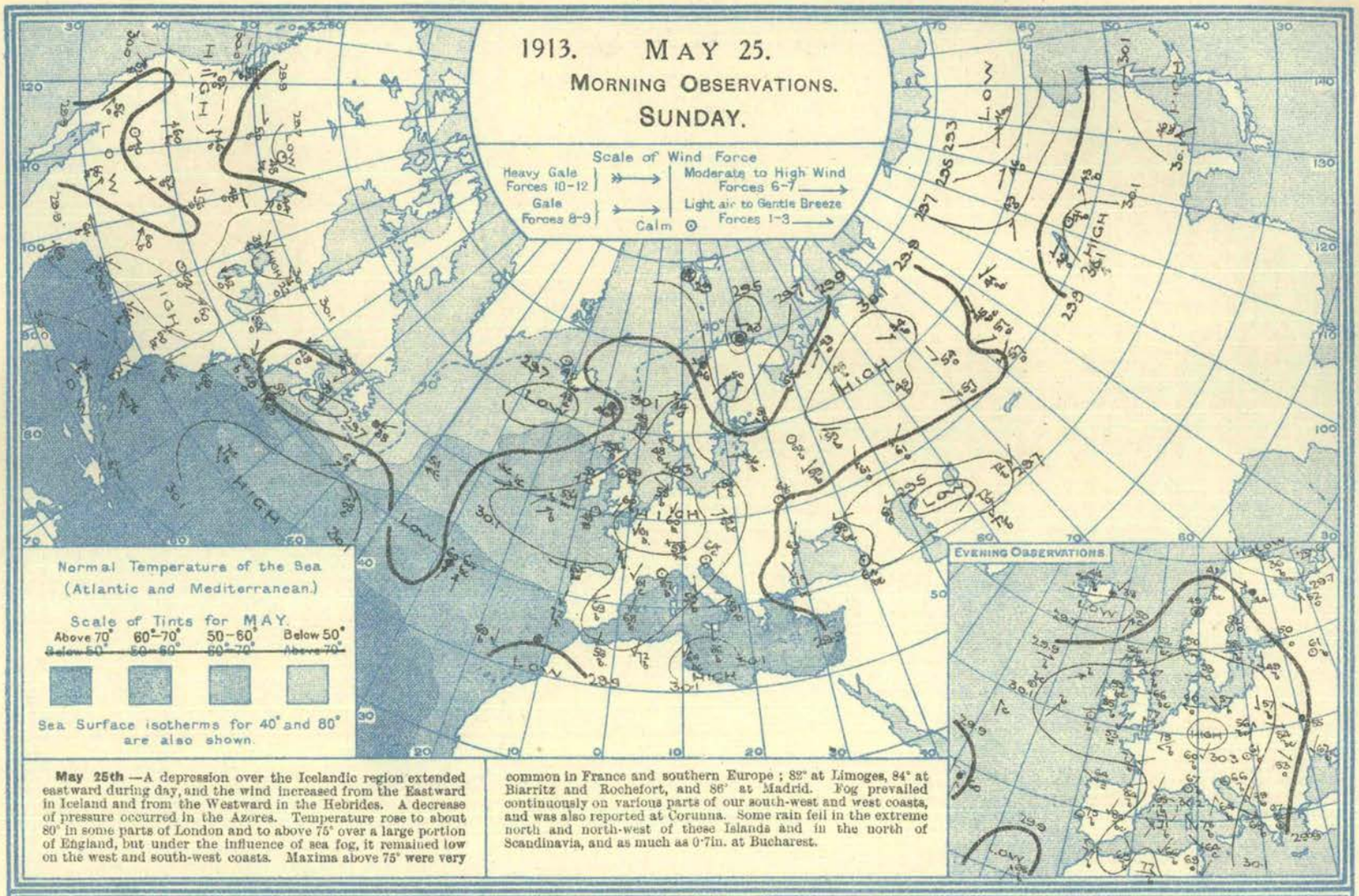
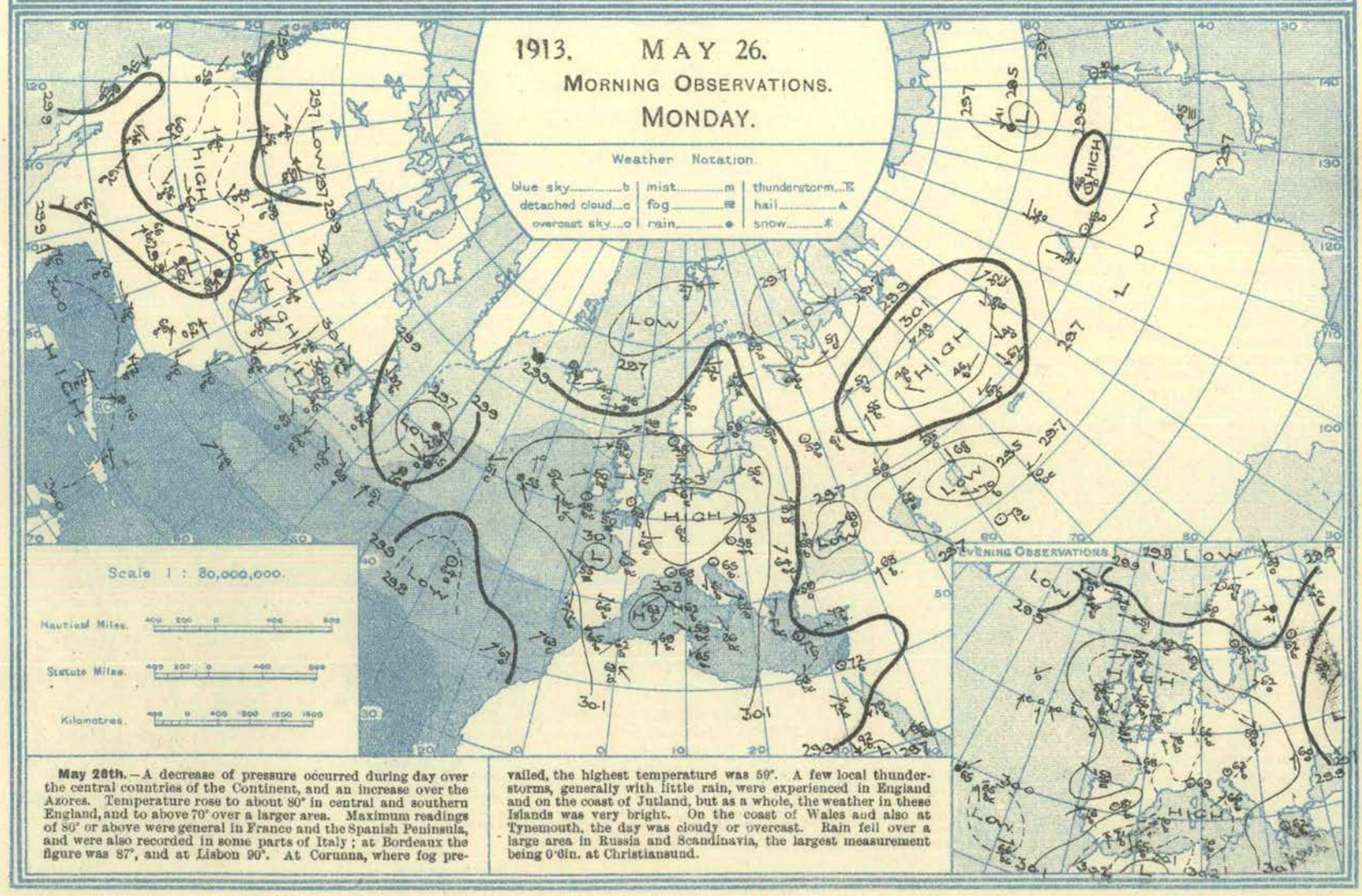
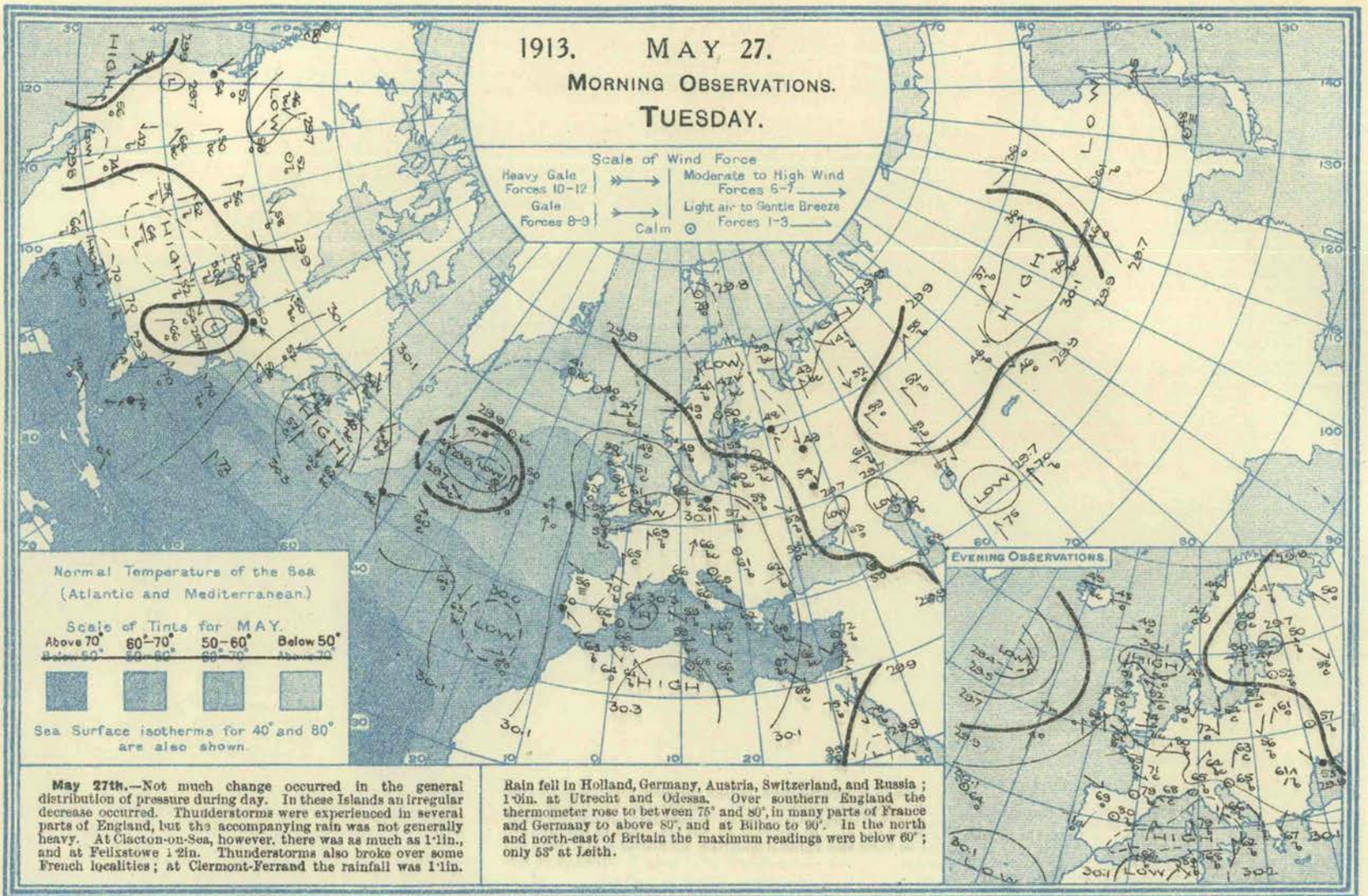


May 25th.—A depression over the Icelandic region extended eastward during day, and the wind increased from the Eastward in Iceland and from the Westward in the Hebrides. A decrease of pressure occurred in the Azores. Temperature rose to about 80° in some parts of London and to above 75° over a large portion of England, but under the influence of sea fog, it remained low on the west and south-west coasts. Maxima above 75° were very common in France and southern Europe; 82° at Limoges, 84° at Biarritz and Rochefort, and 86° at Madrid. Fog prevailed continuously on various parts of our south-west and west coasts, and was also reported at Corunna. Some rain fell in the extreme north and north-west of these Islands and in the north of Scandinavia, and as much as 0·7in. at Bucharest.

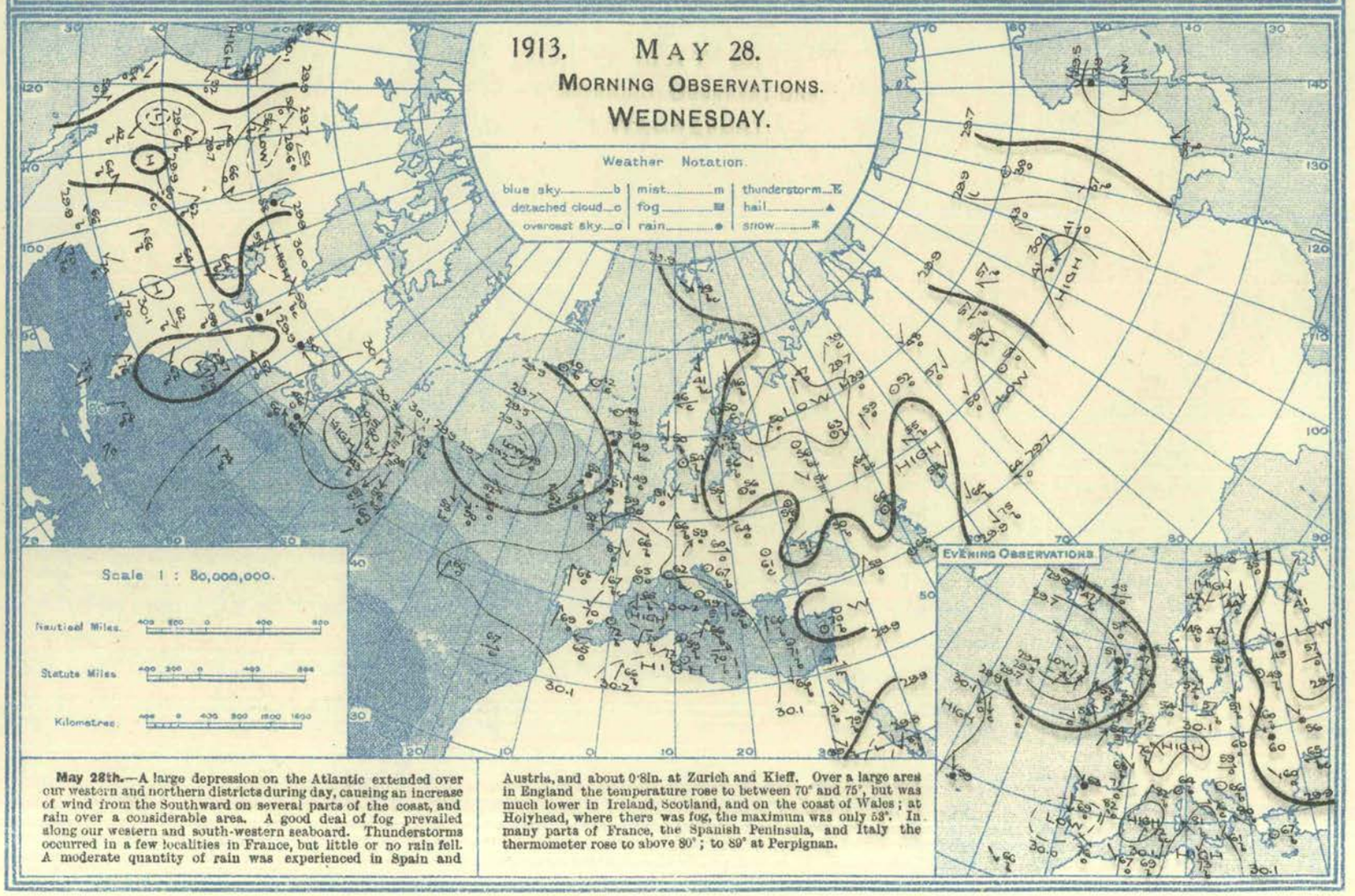


May 26th.—A decrease of pressure occurred during day over the central countries of the Continent, and an increase over the Azores. Temperature rose to about 80° in central and southern England, and to above 70° over a larger area. Maximum readings of 80° or above were general in France and the Spanish Peninsula, and were also recorded in some parts of Italy; at Bordeaux the figure was 87°, and at Lisbon 90°. At Corunna, where fog prevailed, the highest temperature was 59°. A few local thunderstorms, generally with little rain, were experienced in England and on the coast of Jutland, but as a whole, the weather in these Islands was very bright. On the coast of Wales and also at Tynemouth, the day was cloudy or overcast. Rain fell over a large area in Russia and Scandinavia, the largest measurement being 0·6in. at Christiansund.

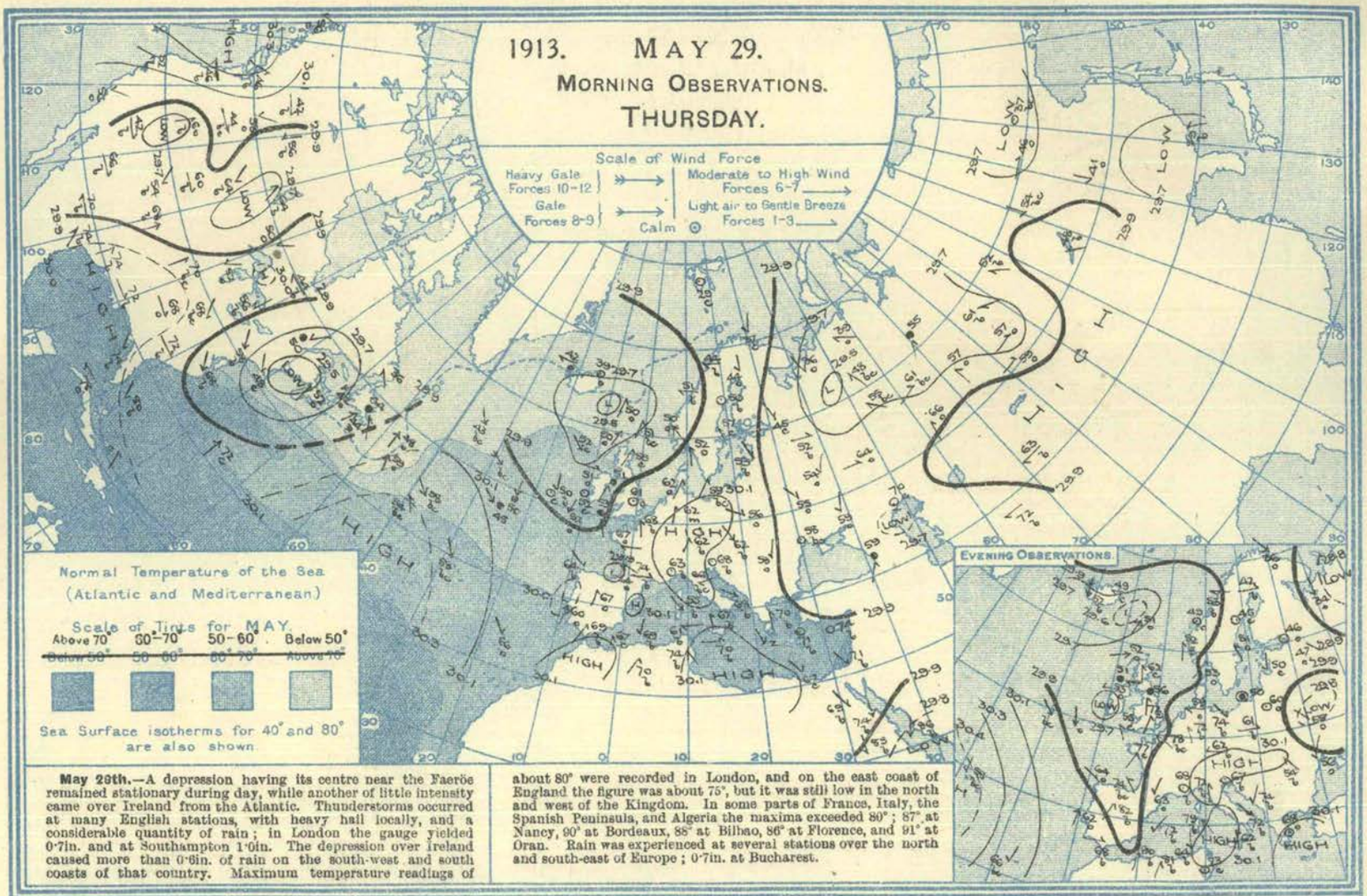


May 27th.—Not much change occurred in the general distribution of pressure during day. In these Islands an irregular decrease occurred. Thunderstorms were experienced in several parts of England, but the accompanying rain was not generally heavy. At Clacton-on-Sea, however, there was as much as 1·1in., and at Felixstowe 1·2in. Thunderstorms also broke over some French localities; at Clermont-Ferrand the rainfall was 1·1in.

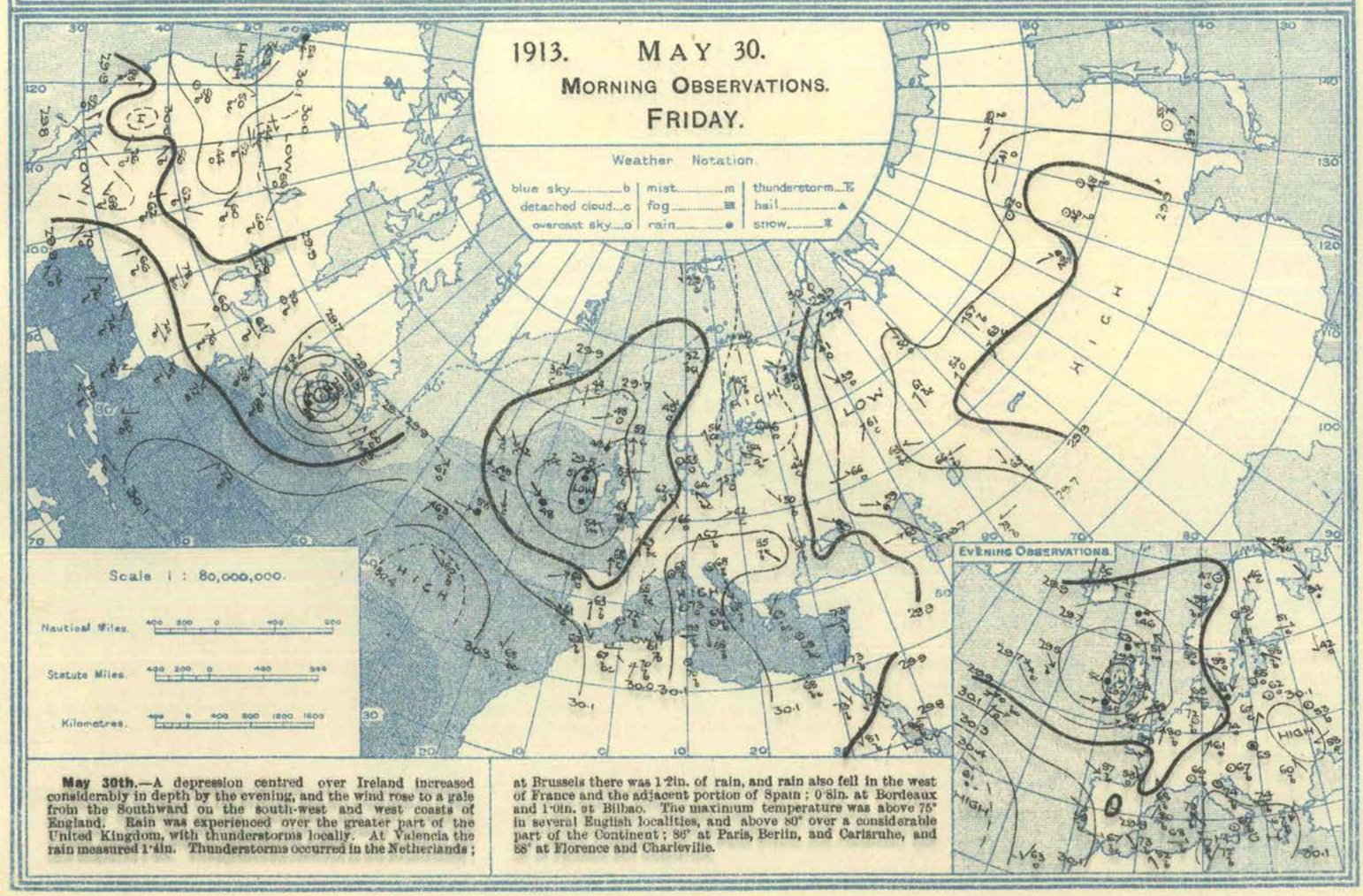
Rain fell in Holland, Germany, Austria, Switzerland, and Russia; 1·0in. at Utrecht and Odessa. Over southern England the thermometer rose to between 75° and 80°, in many parts of France and Germany to above 80°, and at Bilbao to 90°. In the north and north-east of Britain the maximum readings were below 60°; only 53° at Leith.



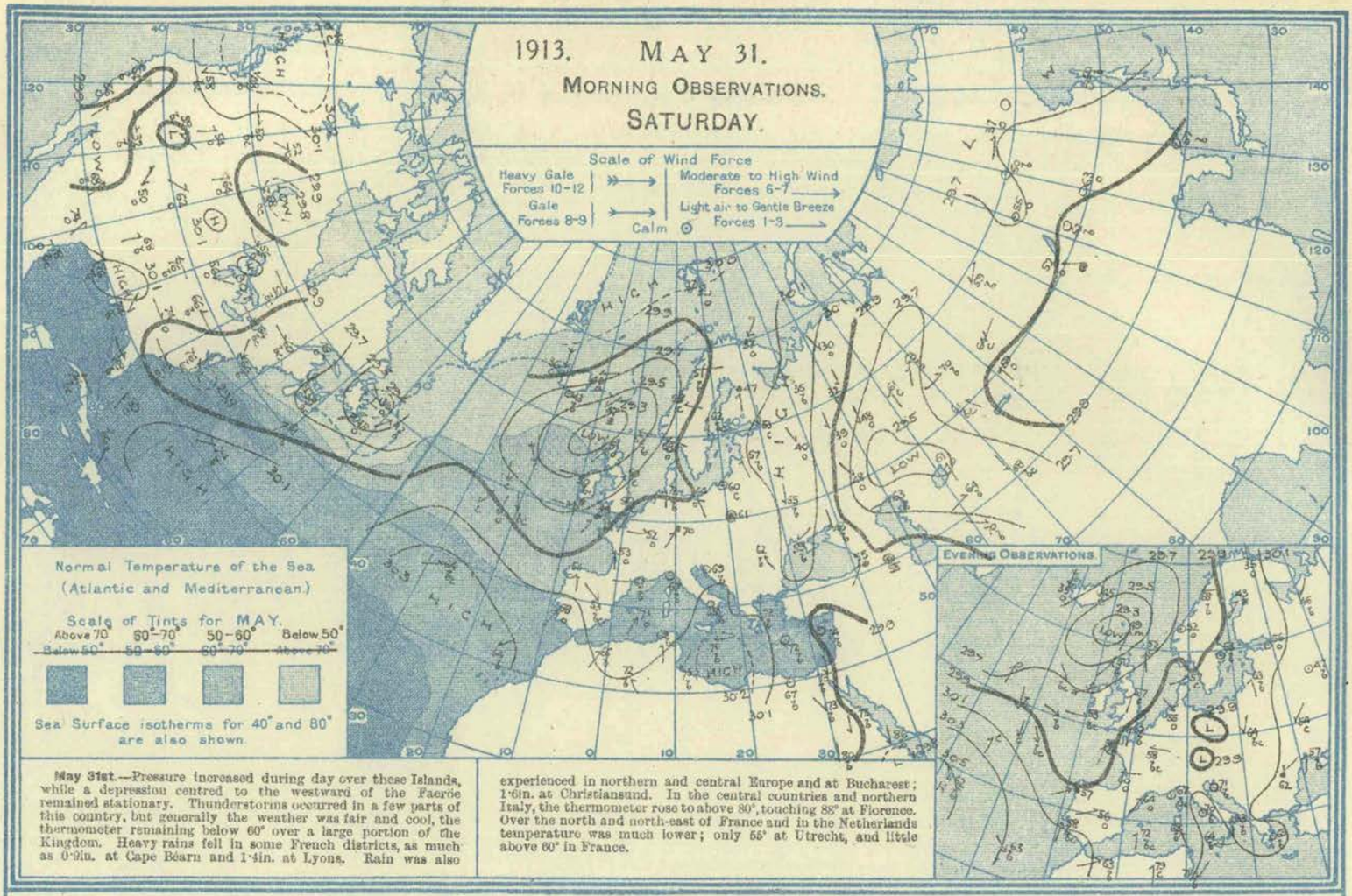
May 28th.—A large depression on the Atlantic extended over our western and northern districts during day, causing an increase of wind from the Southward on several parts of the coast, and rain over a considerable area. A good deal of fog prevailed along our western and south-western seaboard. Thunderstorms occurred in a few localities in France, but little or no rain fell. A moderate quantity of rain was experienced in Spain and Austria, and about 0·8in. at Zurich and Kieff. Over a large area in England the temperature rose to between 70° and 75°, but was much lower in Ireland, Scotland, and on the coast of Wales; at Holyhead, where there was fog, the maximum was only 53°. In many parts of France, the Spanish Peninsula, and Italy the thermometer rose to above 80°; to 89° at Perpignan.



May 28th.—A depression having its centre near the Faeröe remained stationary during day, while another of little intensity came over Ireland from the Atlantic. Thunderstorms occurred at many English stations, with heavy hail locally, and a considerable quantity of rain; in London the gauge yielded 0·7in. and at Southampton 1·0in. The depression over Ireland caused more than 0·6in. of rain on the south-west and south coasts of that country. Maximum temperature readings of about 80° were recorded in London, and on the east coast of England the figure was about 75°, but it was still low in the north and west of the Kingdom. In some parts of France, Italy, the Spanish Peninsula, and Algeria the maxima exceeded 80°; 87° at Nancy, 90° at Bordeaux, 88° at Bilbao, 86° at Florence, and 91° at Oran. Rain was experienced at several stations over the north and south-east of Europe; 0·7in. at Bucharest.

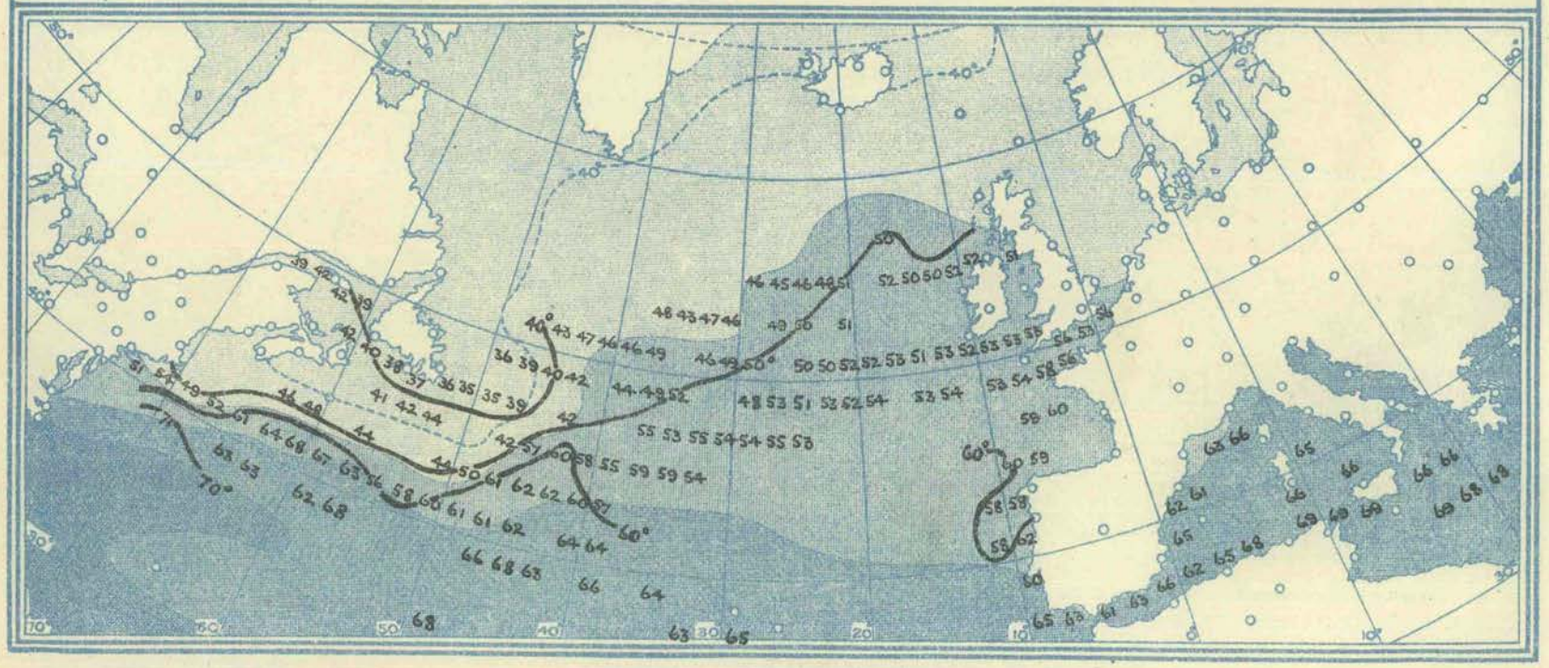


May 30th.—A depression centred over Ireland increased considerably in depth by the evening, and the wind rose to a gale from the Southward on the south-west and west coasts of England. Rain was experienced over the greater part of the United Kingdom, with thunderstorms locally. At Valencia the rain measured 1·4in. Thunderstorms occurred in the Netherlands; at Brussels there was 1·2in. of rain, and rain also fell in the west of France and the adjacent portion of Spain; 0·8in. at Bordeaux and 1·0in. at Bilbao. The maximum temperature was above 75° in several English localities, and above 80° over a considerable part of the Continent; 86° at Paris, Berlin, and Carlsruhe, and 88° at Florence and Charleville.



May 31st.—Pressure increased during day over these Islands, while a depression centred to the westward of the Faeröe remained stationary. Thunderstorms occurred in a few parts of this country, but generally the weather was fair and cool, the thermometer remaining below 60° over a large portion of the Kingdom. Heavy rains fell in some French districts, as much as 0·9in. at Cape Béarn and 1·4in. at Lyons. Rain was also experienced in northern and central Europe and at Bucharest; 1·6in. at Christiansund. In the central countries and northern Italy, the thermometer rose to above 80°, touching 88° at Florence. Over the north and north-east of France and in the Netherlands temperature was much lower; only 55° at Utrecht, and little above 60° in France.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 31ST MAY, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain and in the Azores. These times refer to Greenwich Mean Time.

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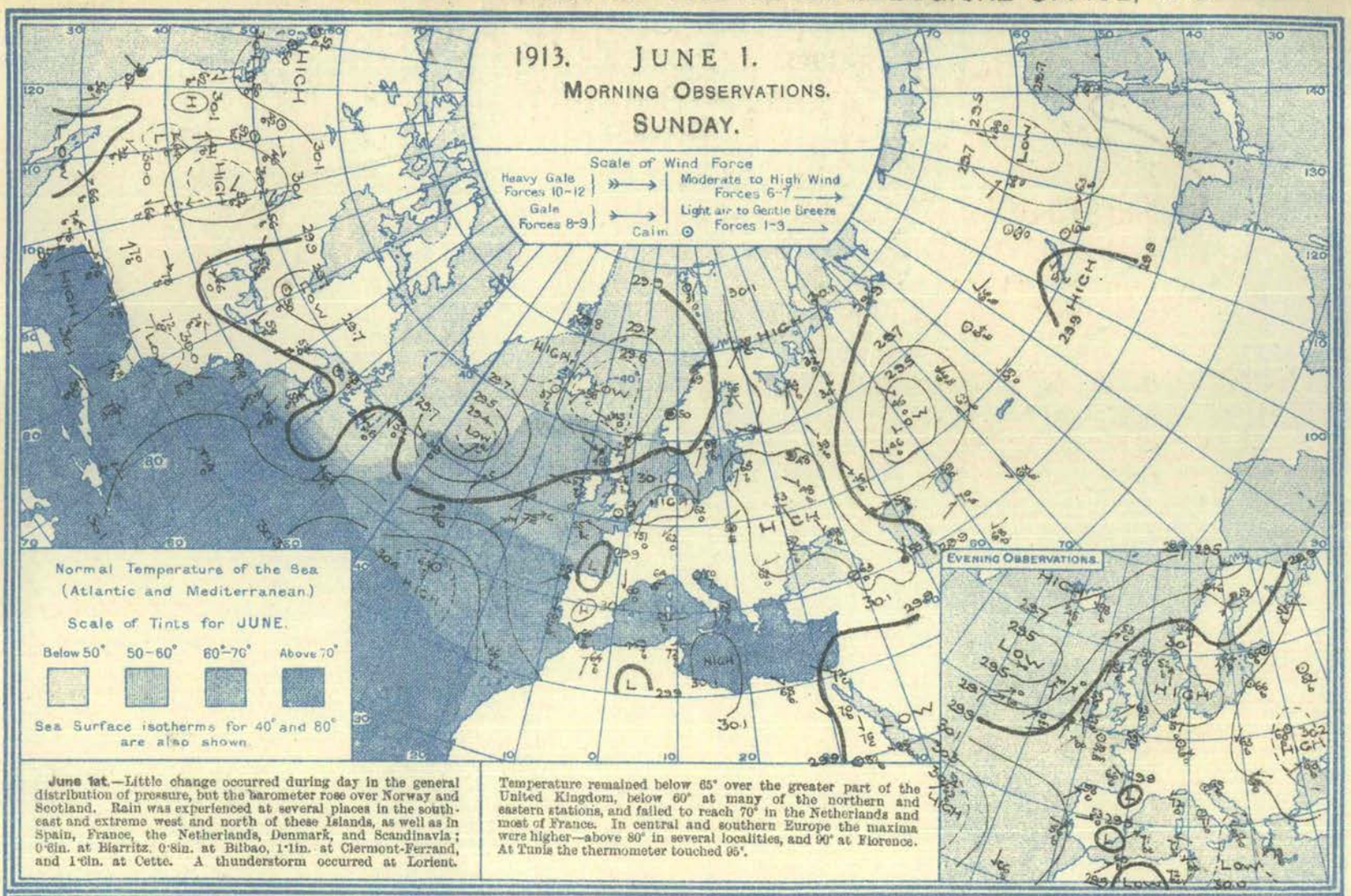
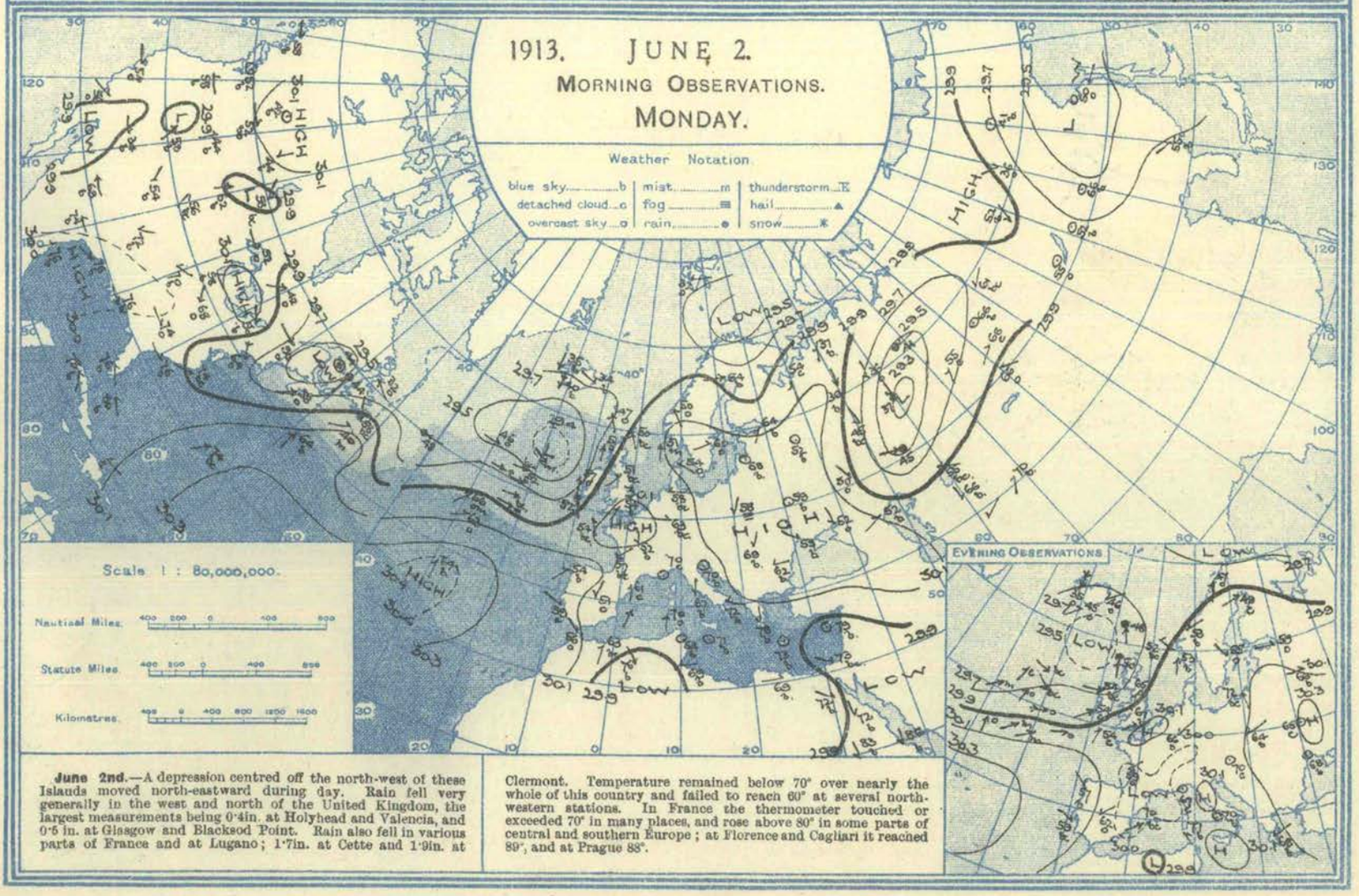
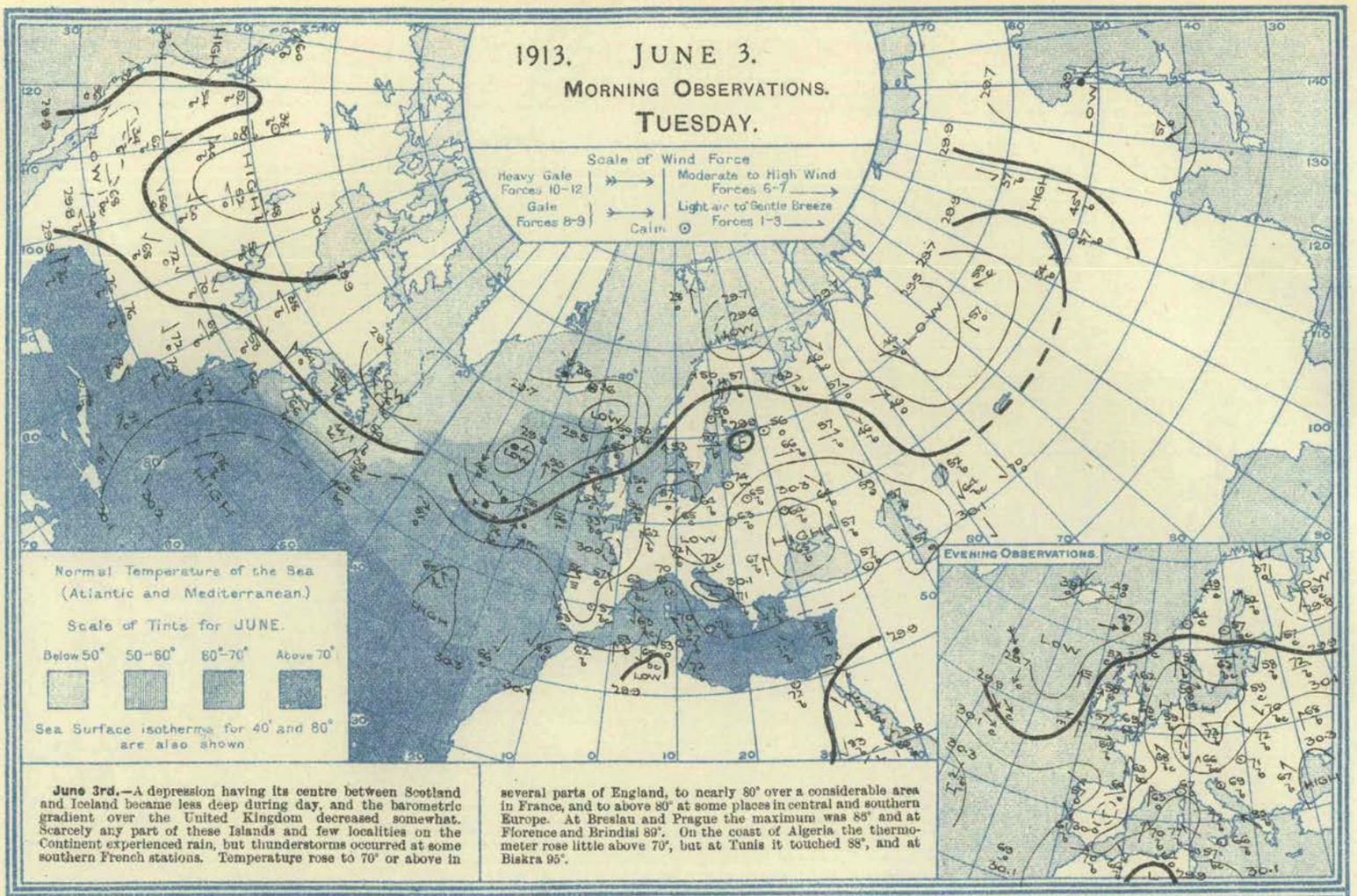


June 1st.—Little change occurred during day in the general distribution of pressure, but the barometer rose over Norway and Scotland. Rain was experienced at several places in the south-east and extreme west and north of these Islands, as well as in Spain, France, the Netherlands, Denmark, and Scandinavia; 0·6in. at Biarritz, 0·8in. at Bilbao, 1·1in. at Clermont-Ferrand, and 1·6in. at Cette. A thunderstorm occurred at Lorient.

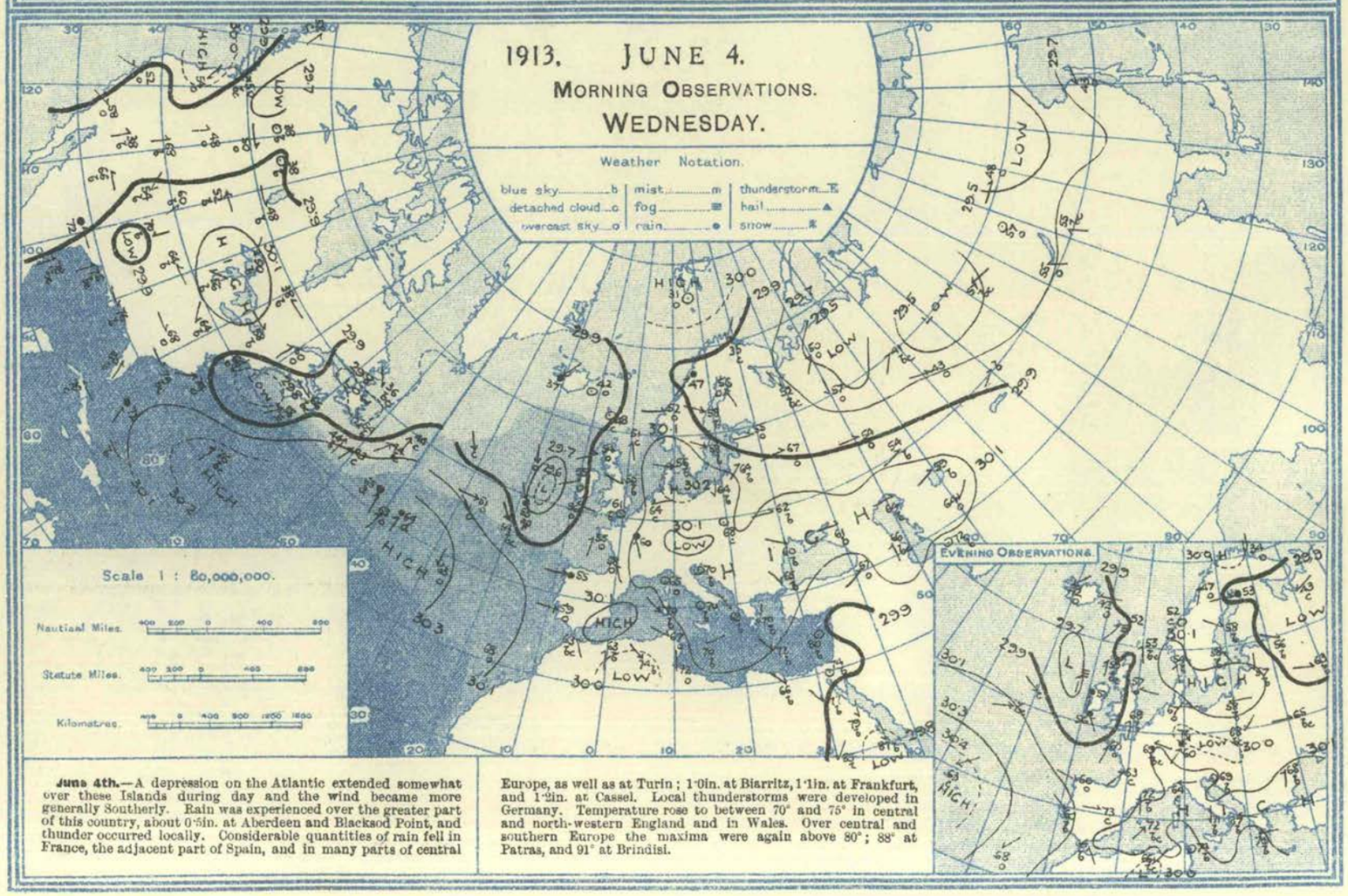
Temperature remained below 65° over the greater part of the United Kingdom, below 60° at many of the northern and eastern stations, and failed to reach 70° in the Netherlands and most of France. In central and southern Europe the maxima were higher—above 80° in several localities, and 90° at Florence. At Tunis the thermometer touched 95°.



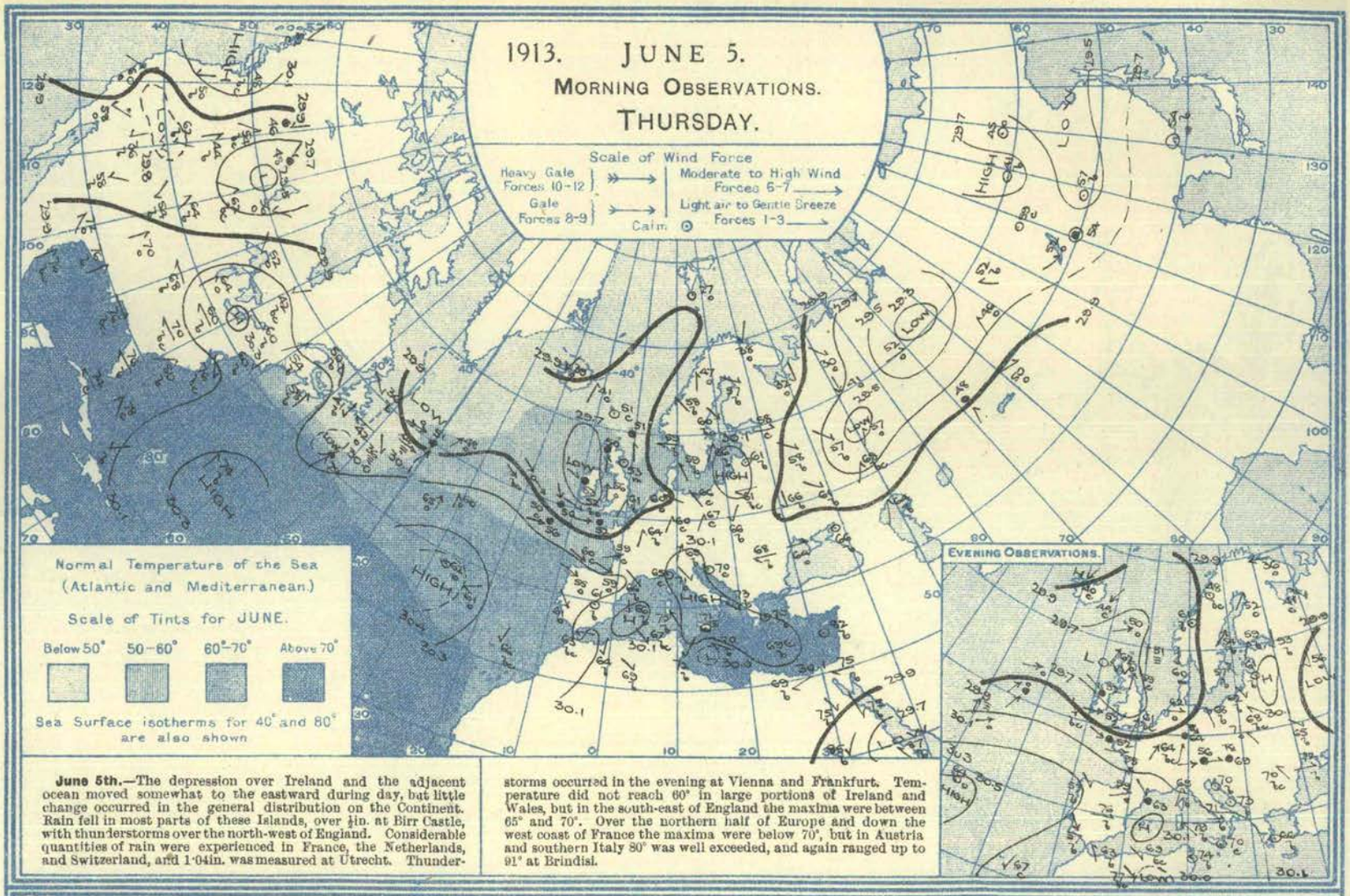
June 2nd.—A depression centred off the north-west of these Islands moved north-eastward during day. Rain fell very generally in the west and north of the United Kingdom, the largest measurements being 0·4in. at Holyhead and Valencia, and 0·5 in. at Glasgow and Blacksod Point. Rain also fell in various parts of France and at Lugano; 1·7in. at Cette and 1·9in. at Clermont. Temperature remained below 70° over nearly the whole of this country and failed to reach 60° at several north-western stations. In France the thermometer touched or exceeded 70° in many places, and rose above 80° in some parts of central and southern Europe; at Florence and Cagliari it reached 89°, and at Prague 88°.



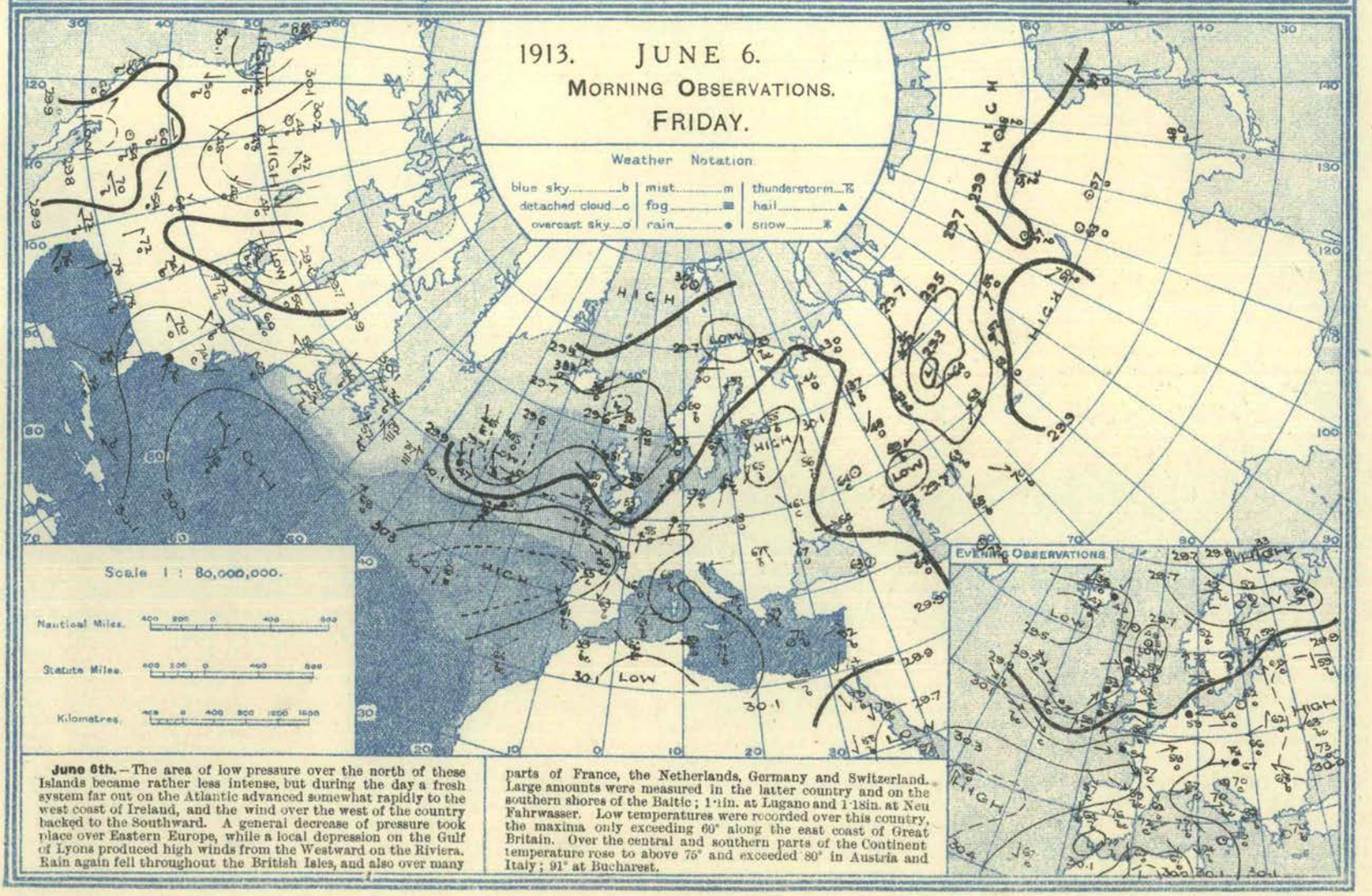
June 3rd.—A depression having its centre between Scotland and Iceland became less deep during day, and the barometric gradient over the United Kingdom decreased somewhat. Scarcely any part of these Islands and few localities on the Continent experienced rain, but thunderstorms occurred at some southern French stations. Temperature rose to 70° or above in several parts of England, to nearly 80° over a considerable area in France, and to above 80° at some places in central and southern Europe. At Breslau and Prague the maximum was 88° and at Florence and Brindisi 89°. On the coast of Algeria the thermometer rose little above 70°, but at Tunis it touched 88°, and at Biskra 95°.



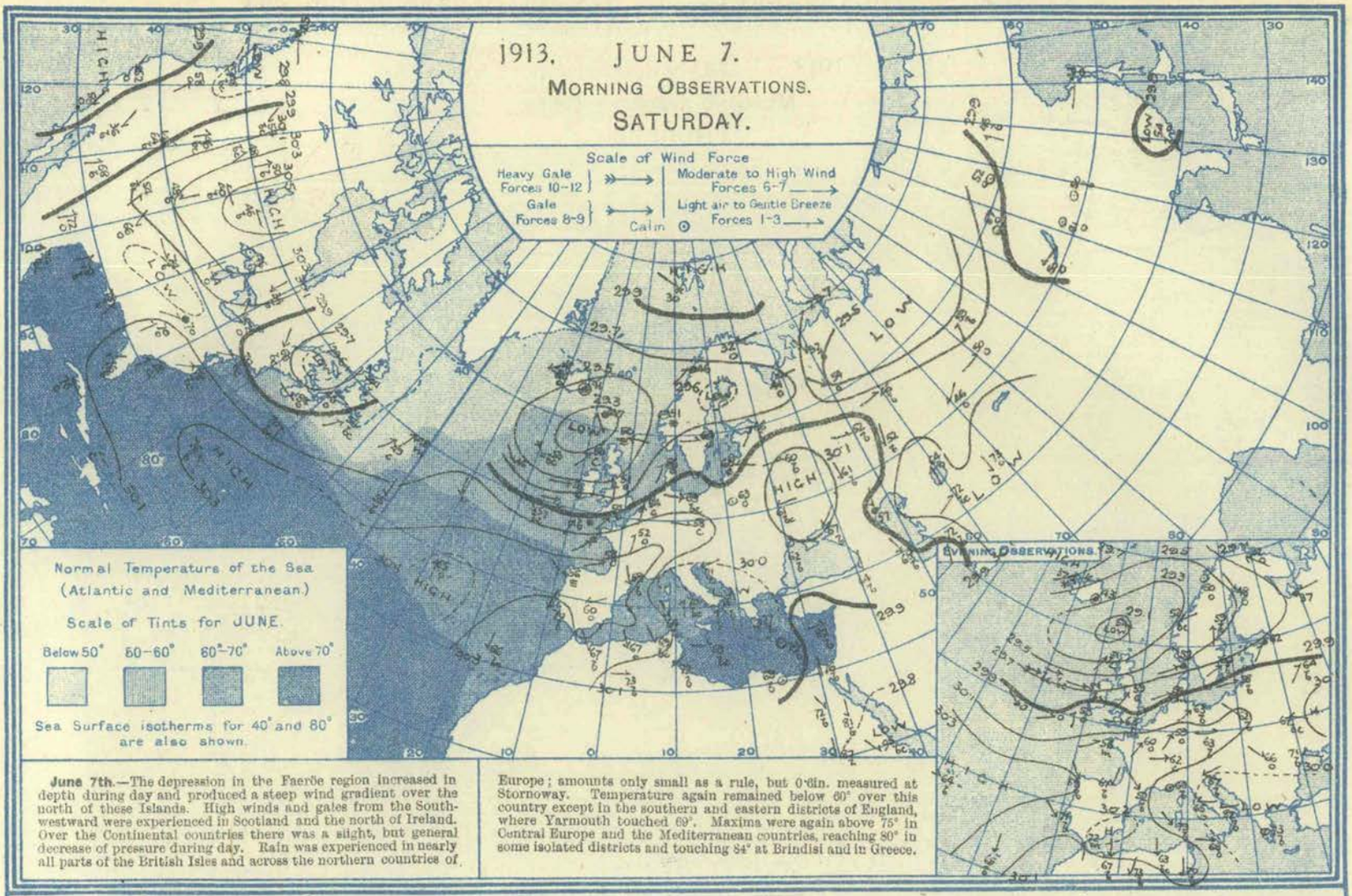
June 4th.—A depression on the Atlantic extended somewhat over these Islands during day and the wind became more generally Southerly. Rain was experienced over the greater part of this country, about 0·5in. at Aberdeen and Blacksod Point, and thunder occurred locally. Considerable quantities of rain fell in France, the adjacent part of Spain, and in many parts of central Europe, as well as at Turin; 1·0in. at Biarritz, 1·1in. at Frankfurt, and 1·2in. at Cassel. Local thunderstorms were developed in Germany. Temperature rose to between 70° and 75° in central and north-western England and in Wales. Over central and southern Europe the maxima were again above 80°; 88° at Patras, and 91° at Brindisi.



June 5th.—The depression over Ireland and the adjacent ocean moved somewhat to the eastward during day, but little change occurred in the general distribution on the Continent. Rain fell in most parts of these Islands, over ½in. at Birr Castle, with thunderstorms over the north-west of England. Considerable quantities of rain were experienced in France, the Netherlands, and Switzerland, and 1·04in. was measured at Utrecht. Thunderstorms occurred in the evening at Vienna and Frankfurt. Temperature did not reach 60° in large portions of Ireland and Wales, but in the south-east of England the maxima were between 65° and 70°. Over the northern half of Europe and down the west coast of France the maxima were below 70°, but in Austria and southern Italy 80° was well exceeded, and again ranged up to 91° at Brindisi.

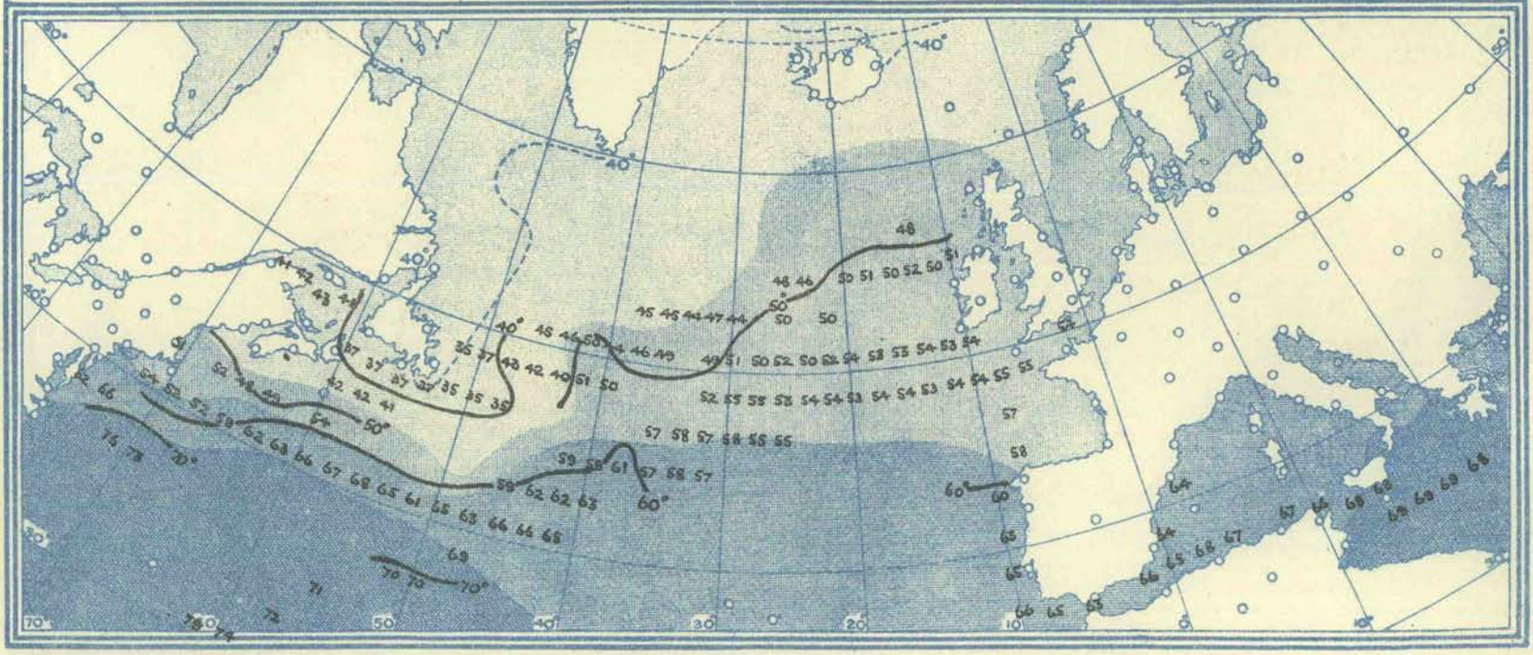


June 6th.—The area of low pressure over the north of these Islands became rather less intense, but during the day a fresh system far out on the Atlantic advanced somewhat rapidly to the west coast of Ireland, and the wind over the west of the country backed to the Southward. A general decrease of pressure took place over Eastern Europe, while a local depression on the Gulf of Lyons produced high winds from the Westward on the Riviera. Rain again fell throughout the British Isles, and also over many parts of France, the Netherlands, Germany and Switzerland. Large amounts were measured in the latter country and on the southern shores of the Baltic; 1·1in. at Lugano and 1·18in. at Neu Fahrwasser. Low temperatures were recorded over this country, the maxima only exceeding 60° along the east coast of Great Britain. Over the central and southern parts of the Continent temperature rose to above 75° and exceeded 80° in Austria and Italy; 91° at Bucharest.



June 7th.—The depression in the Faeröe region increased in depth during day and produced a steep wind gradient over the north of these Islands. High winds and gales from the South-westward were experienced in Scotland and the north of Ireland. Over the Continental countries there was a slight, but general decrease of pressure during day. Rain was experienced in nearly all parts of the British Isles and across the northern countries of Europe; amounts only small as a rule, but 0·6in. measured at Stornoway. Temperature again remained below 60° over this country except in the southern and eastern districts of England, where Yarmouth touched 69°. Maxima were again above 75° in Central Europe and the Mediterranean countries, reaching 80° in some isolated districts and touching 84° at Brindisi and in Greece.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 7TH JUNE, 1913.



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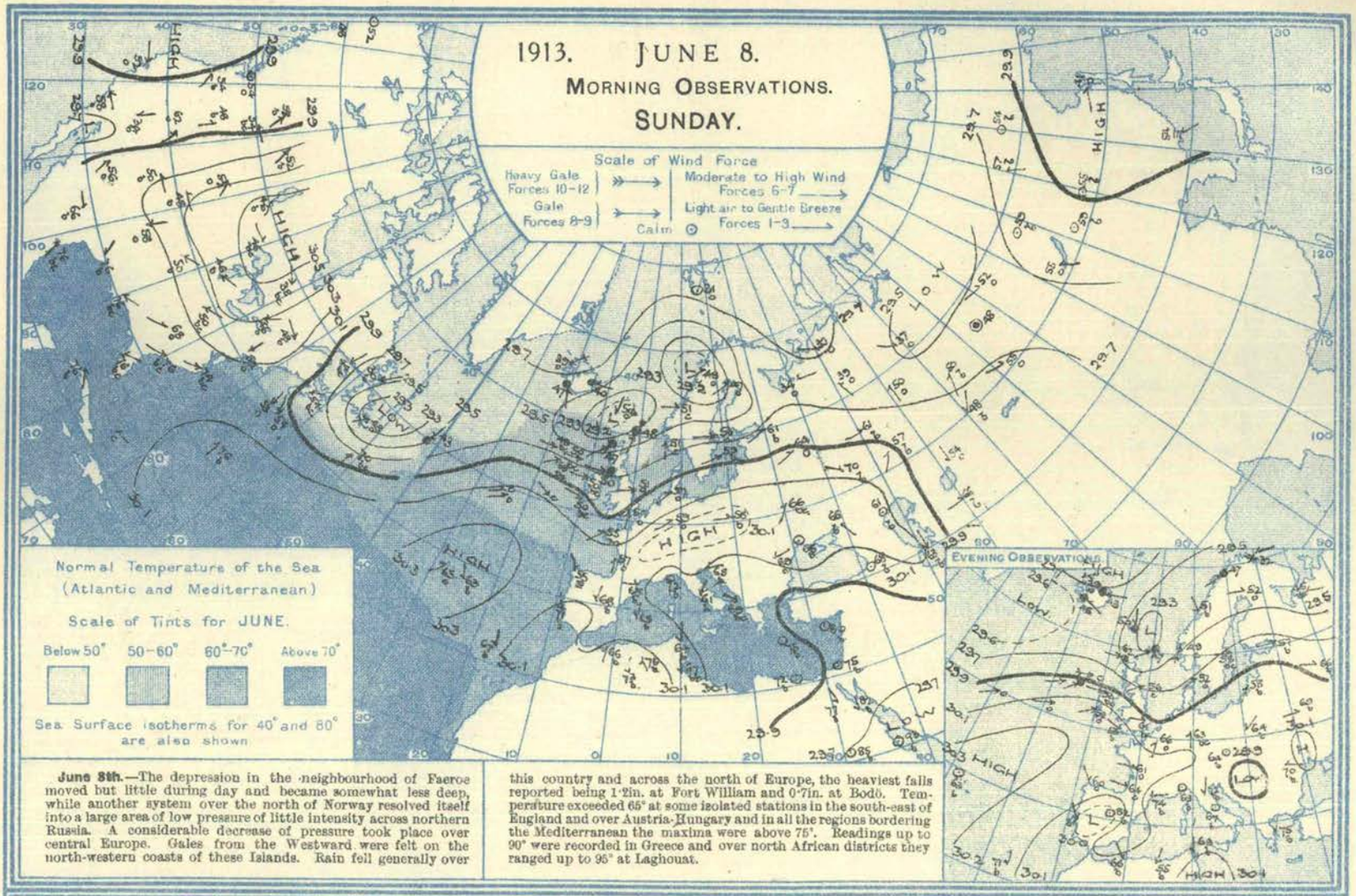
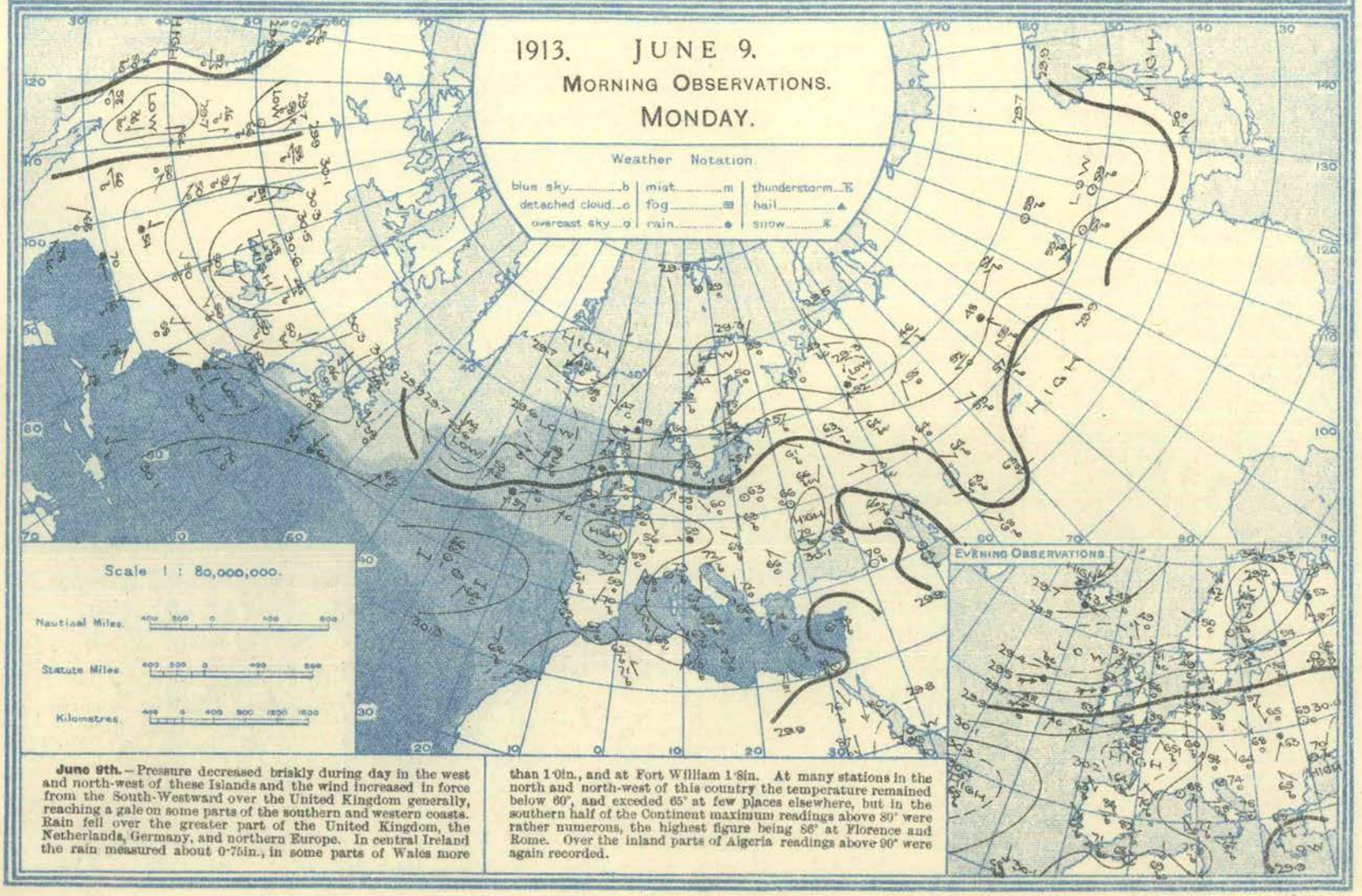
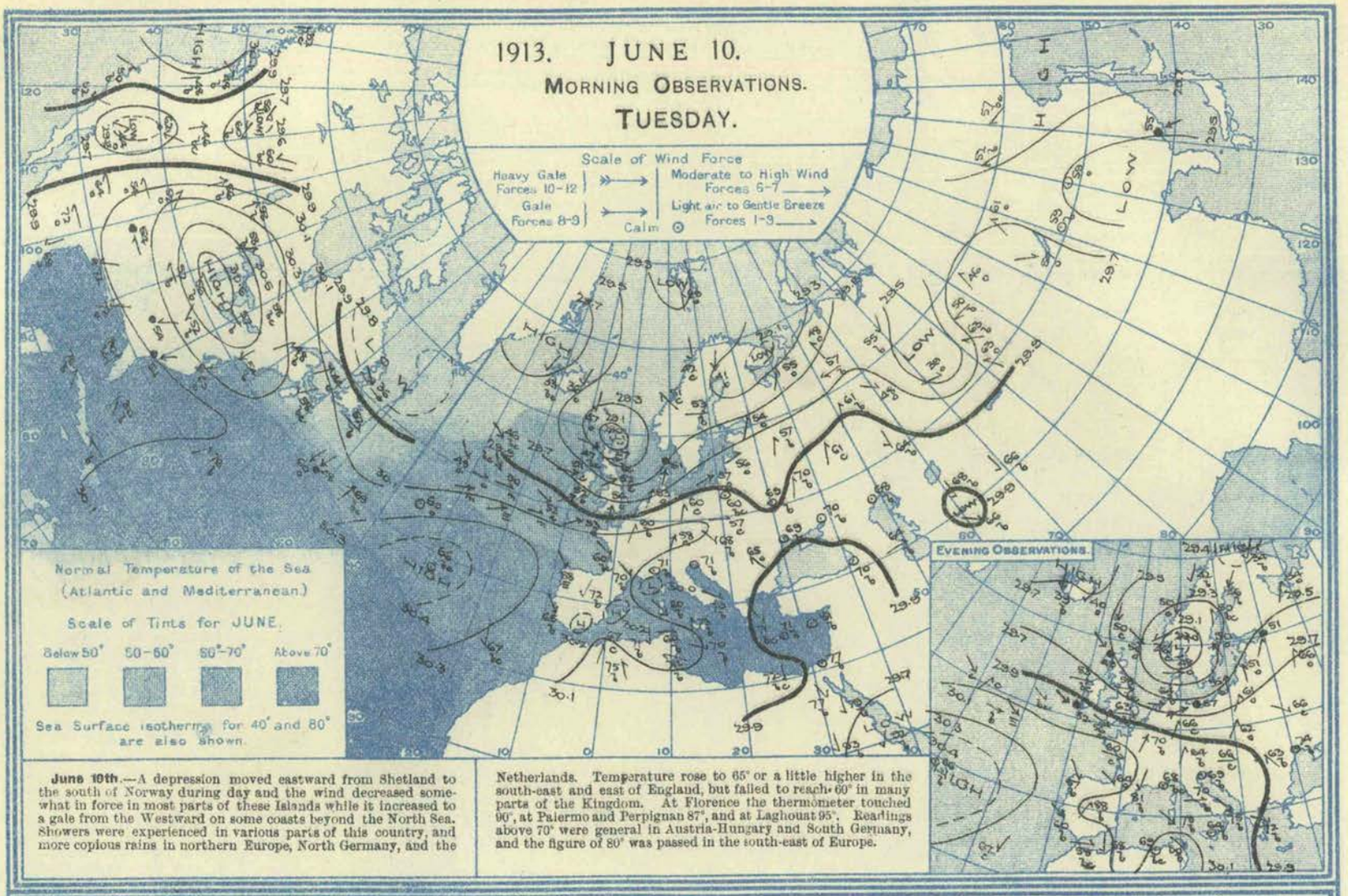


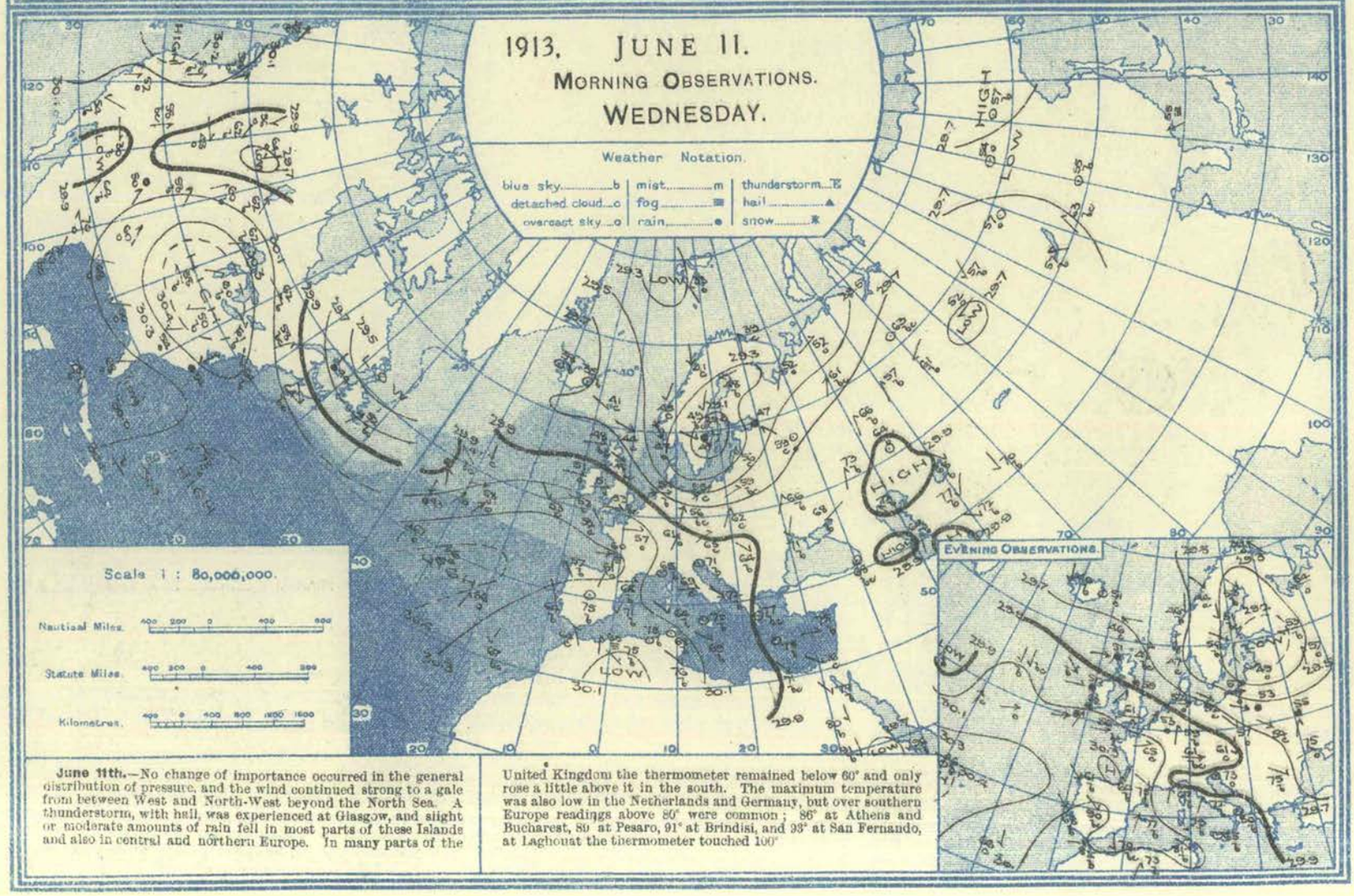
June 8th.—The depression in the neighbourhood of Faeroe moved but little during day and became somewhat less deep, while another system over the north of Norway resolved itself into a large area of low pressure of little intensity across northern Russia. A considerable decrease of pressure took place over central Europe. Gales from the Westward were felt on the north-western coasts of these Islands. Rain fell generally over this country and across the north of Europe, the heaviest falls reported being 1·2in. at Fort William and 0·7in. at Bodö. Temperature exceeded 65° at some isolated stations in the south-east of England and over Austria-Hungary and in all the regions bordering the Mediterranean the maxima were above 75°. Readings up to 90° were recorded in Greece and over north African districts they ranged up to 95° at Laghouat.



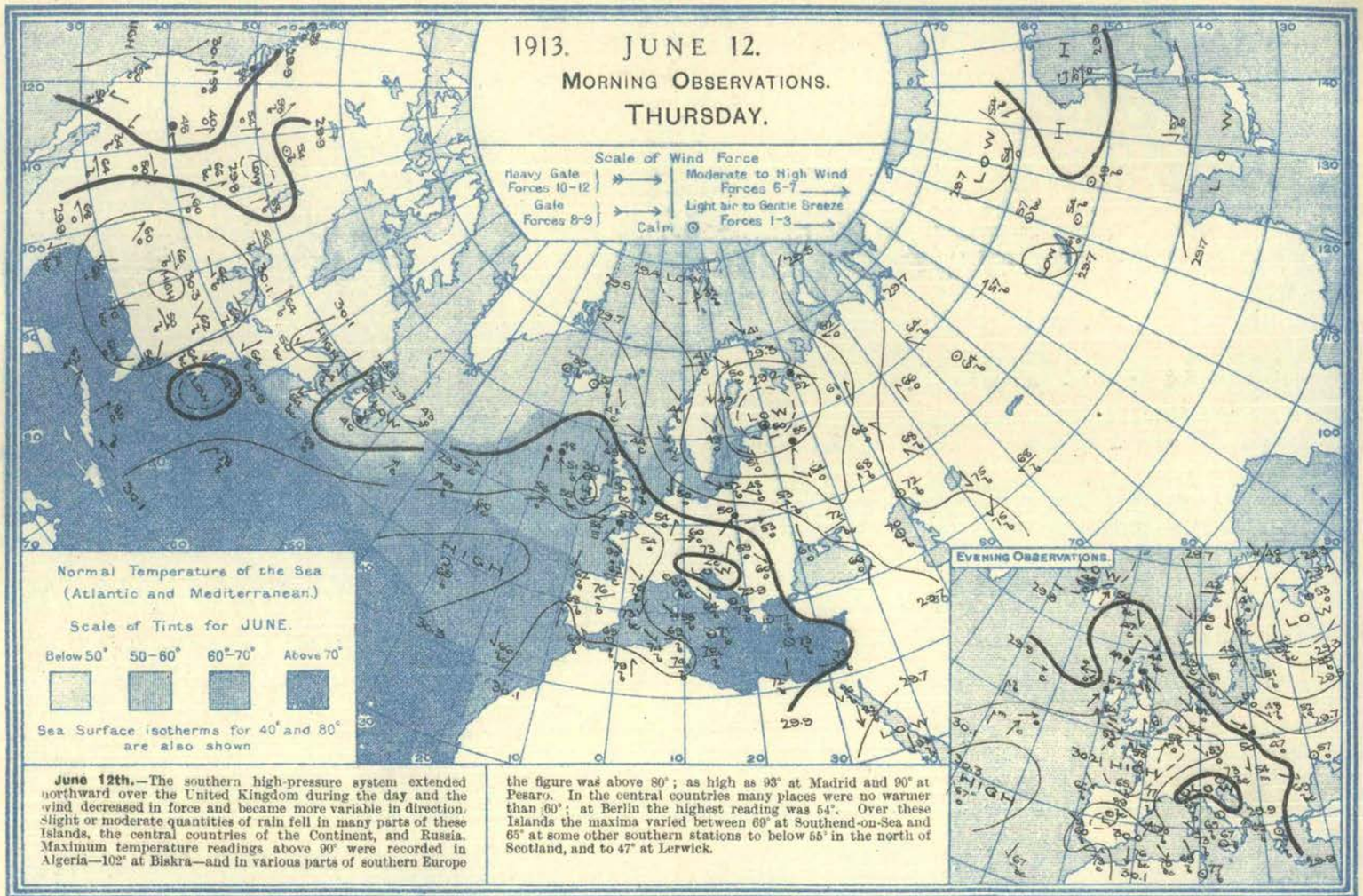
June 9th.—Pressure decreased briskly during day in the west and north-west of these Islands and the wind increased in force from the South-Westward over the United Kingdom generally, reaching a gale on some parts of the southern and western coasts. Rain fell over the greater part of the United Kingdom, the Netherlands, Germany, and northern Europe. In central Ireland the rain measured about 0·75in., in some parts of Wales more than 1·0in., and at Fort William 1·8in. At many stations in the north and north-west of this country the temperature remained below 60°, and exceeded 65° at few places elsewhere, but in the southern half of the Continent maximum readings above 80° were rather numerous, the highest figure being 86° at Florence and Rome. Over the inland parts of Algeria readings above 90° were again recorded.



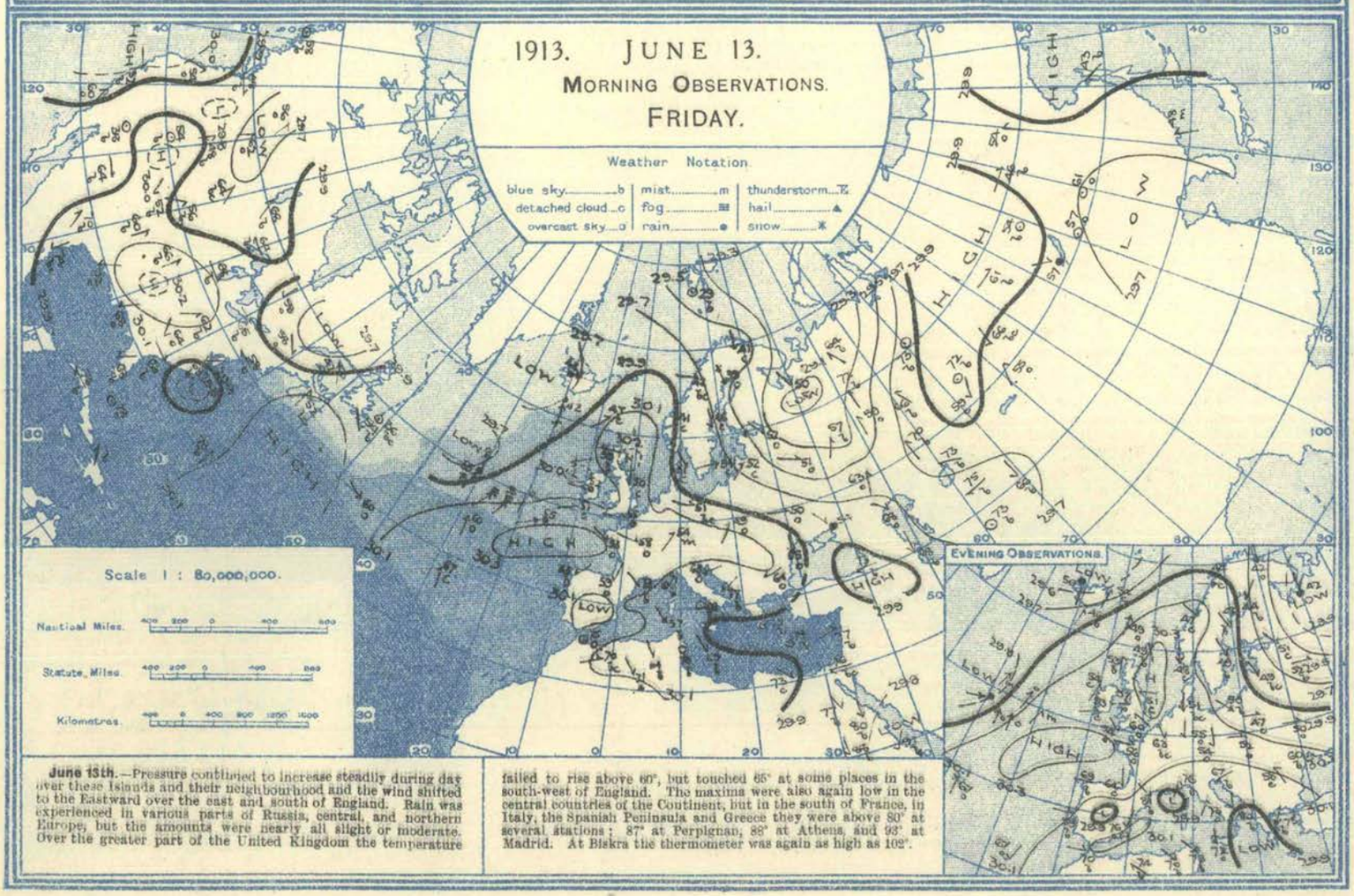
June 10th.—A depression moved eastward from Shetland to the south of Norway during day and the wind decreased somewhat in force in most parts of these Islands while it increased to a gale from the Westward on some coasts beyond the North Sea. Showers were experienced in various parts of this country, and more copious rains in northern Europe, North Germany, and the Netherlands. Temperature rose to 65° or a little higher in the south-east and east of England, but failed to reach 60° in many parts of the Kingdom. At Florence the thermometer touched 90°, at Palermo and Perpignan 87°, and at Laghouat 95°. Readings above 70° were general in Austria-Hungary and South Germany, and the figure of 80° was passed in the south-east of Europe.



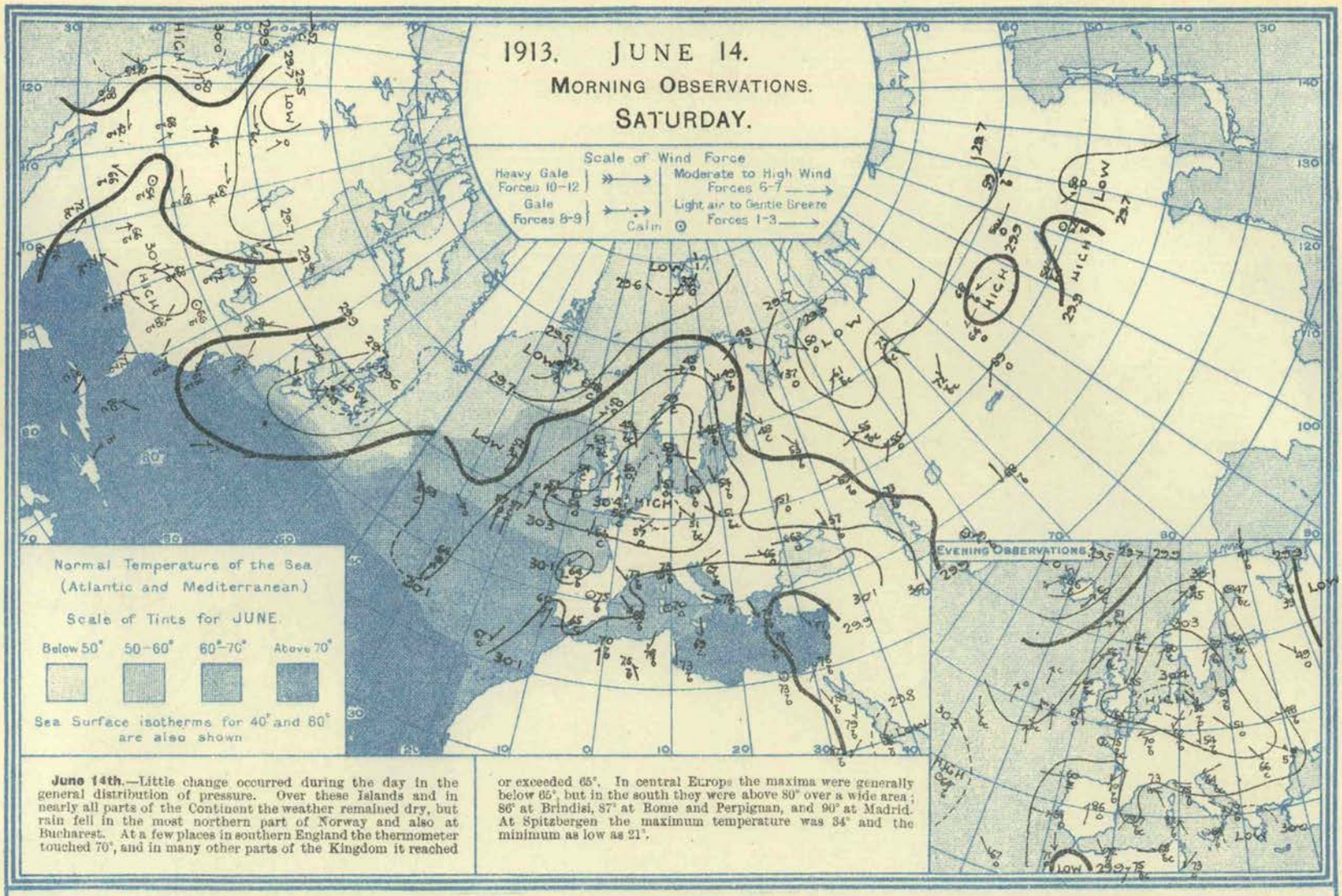
June 11th.—No change of importance occurred in the general distribution of pressure, and the wind continued strong to a gale from between West and North-West beyond the North Sea. A thunderstorm, with hail, was experienced at Glasgow, and slight or moderate amounts of rain fell in most parts of these Islands and also in central and northern Europe. In many parts of the United Kingdom the thermometer remained below 60° and only rose a little above it in the south. The maximum temperature was also low in the Netherlands and Germany, but over southern Europe readings above 80° were common; 86° at Athens and Bucharest, 89° at Pesaro, 91° at Brindisi, and 93° at San Fernando, at Laghouat the thermometer touched 100°



June 12th.—The southern high-pressure system extended northward over the United Kingdom during the day and the wind decreased in force and became more variable in direction; slight or moderate quantities of rain fell in many parts of these Islands, the central countries of the Continent, and Russia. Maximum temperature readings above 90° were recorded in Algeria—102° at Biskra—and in various parts of southern Europe the figure was above 80°; as high as 93° at Madrid and 90° at Pesaro. In the central countries many places were no warmer than 60°; at Berlin the highest reading was 54°. Over these Islands the maxima varied between 69° at Southend-on-Sea and 65° at some other southern stations to below 55° in the north of Scotland, and to 47° at Lerwick.

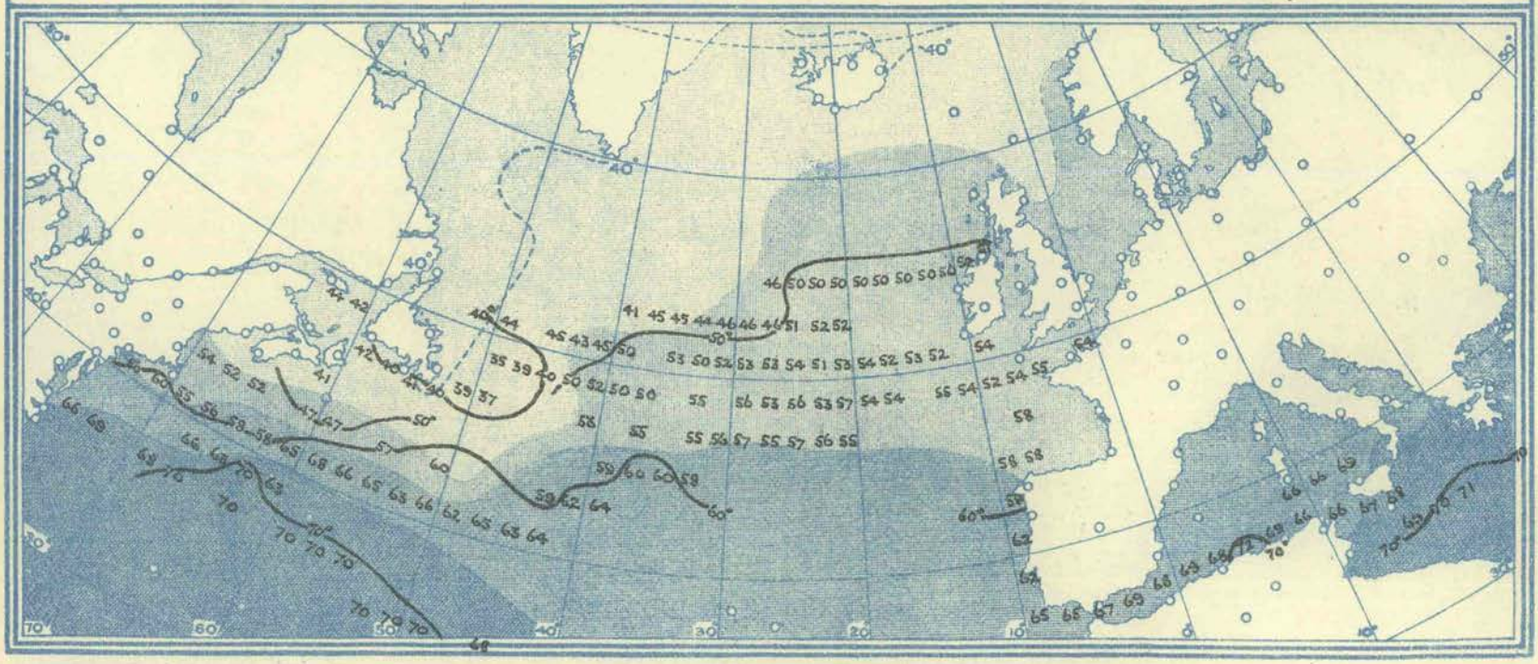


June 13th.—Pressure continued to increase steadily during day over these Islands and their neighbourhood and the wind shifted to the Eastward over the east and south of England. Rain was experienced in various parts of Russia, central, and northern Europe, but the amounts were nearly all slight or moderate. Over the greater part of the United Kingdom the temperature failed to rise above 60°, but touched 65° at some places in the south-west of England. The maxima were also again low in the central countries of the Continent, but in the south of France, in Italy, the Spanish Peninsula and Greece they were above 80° at several stations; 87° at Perpignan, 88° at Athens, and 93° at Madrid. At Biskra the thermometer was again as high as 102°.



June 14th.—Little change occurred during the day in the general distribution of pressure. Over these Islands and in nearly all parts of the Continent the weather remained dry, but rain fell in the most northern part of Norway and also at Bucharest. At a few places in southern England the thermometer touched 70°, and in many other parts of the Kingdom it reached or exceeded 65°. In central Europe the maxima were generally below 65°, but in the south they were above 80° over a wide area; 86° at Brindisi, 87° at Rome and Perpignan, and 90° at Madrid. At Spitzbergen the maximum temperature was 34° and the minimum as low as 21°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 14TH JUNE, 1913.



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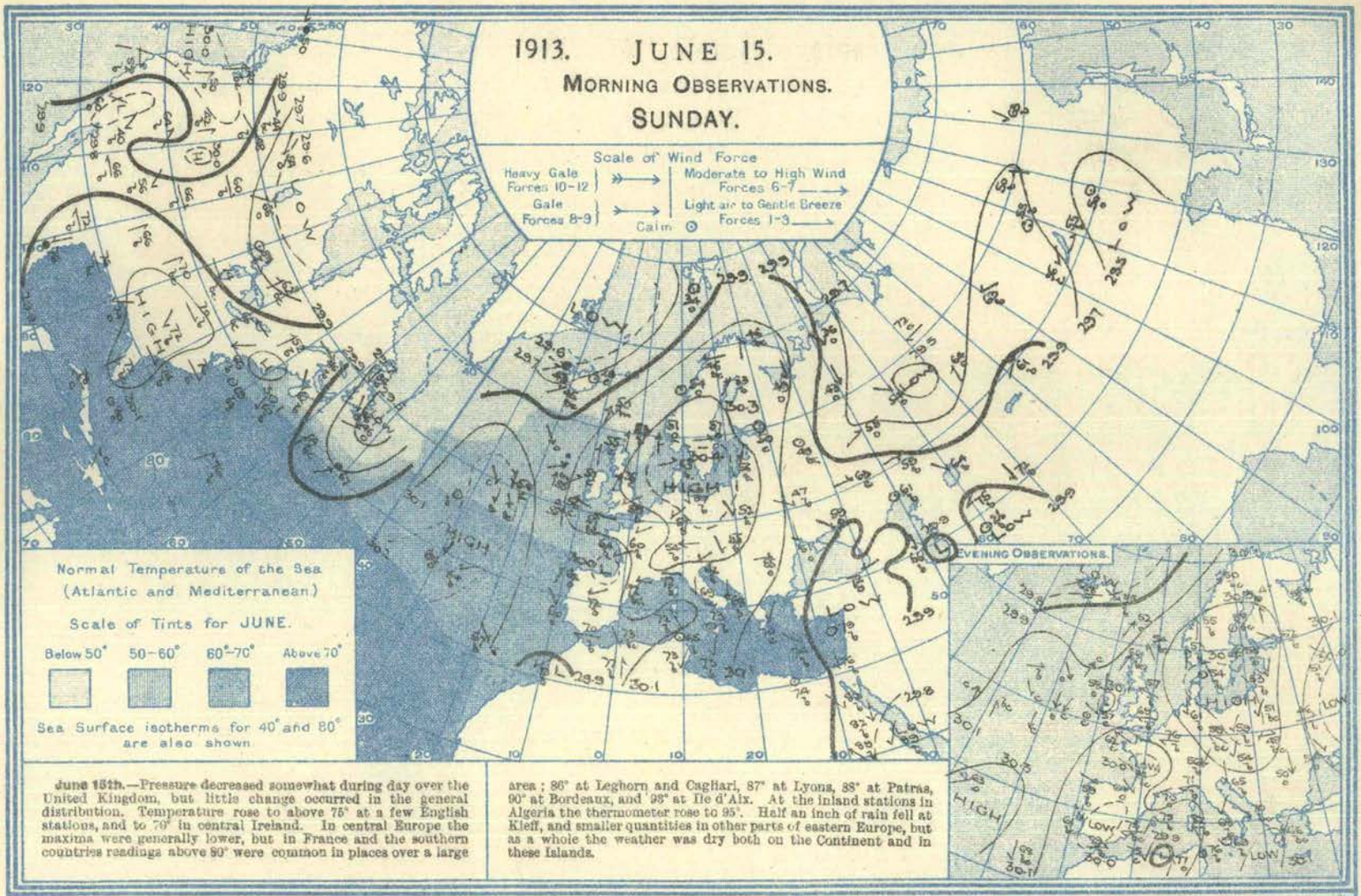
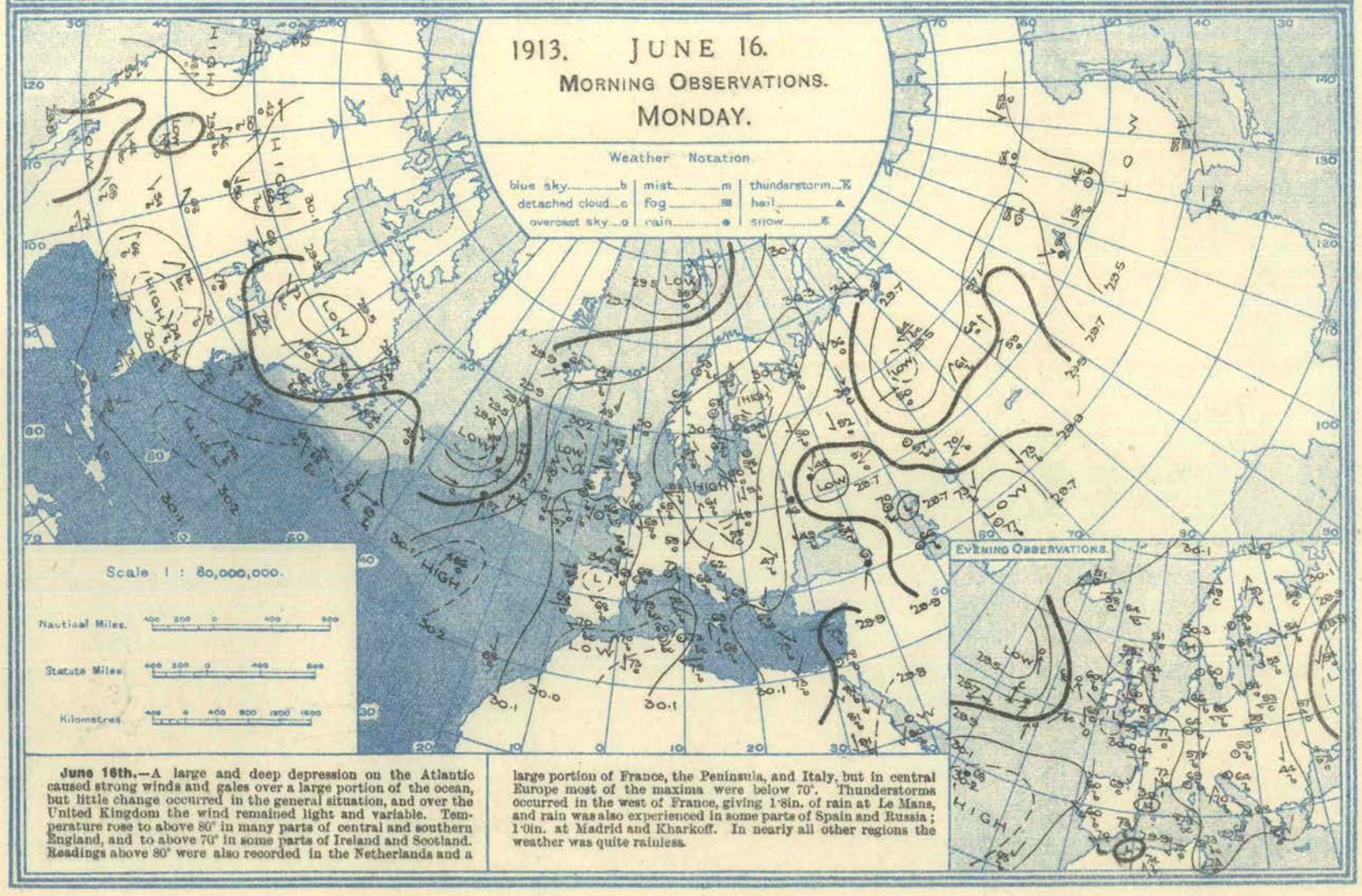
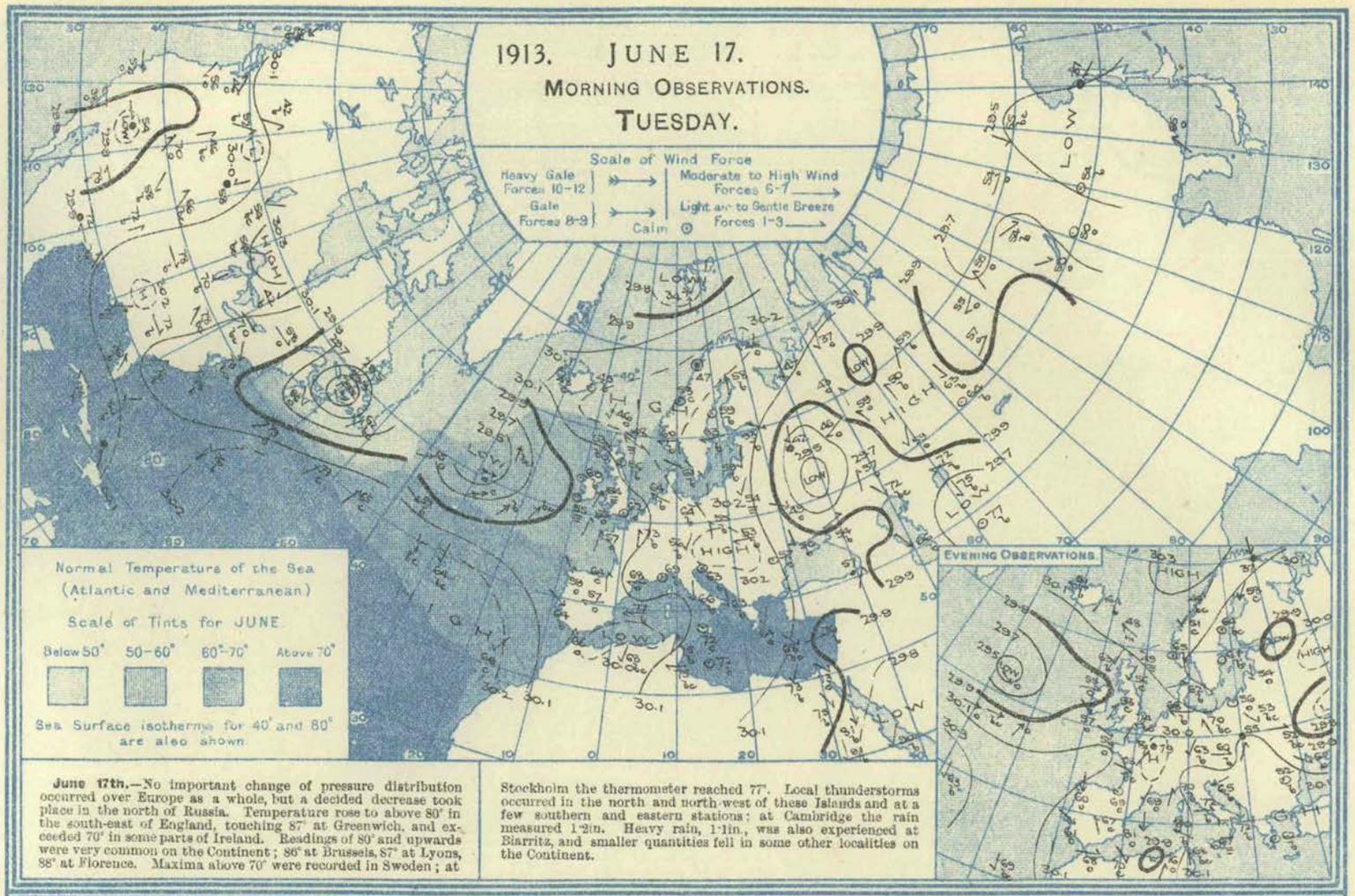


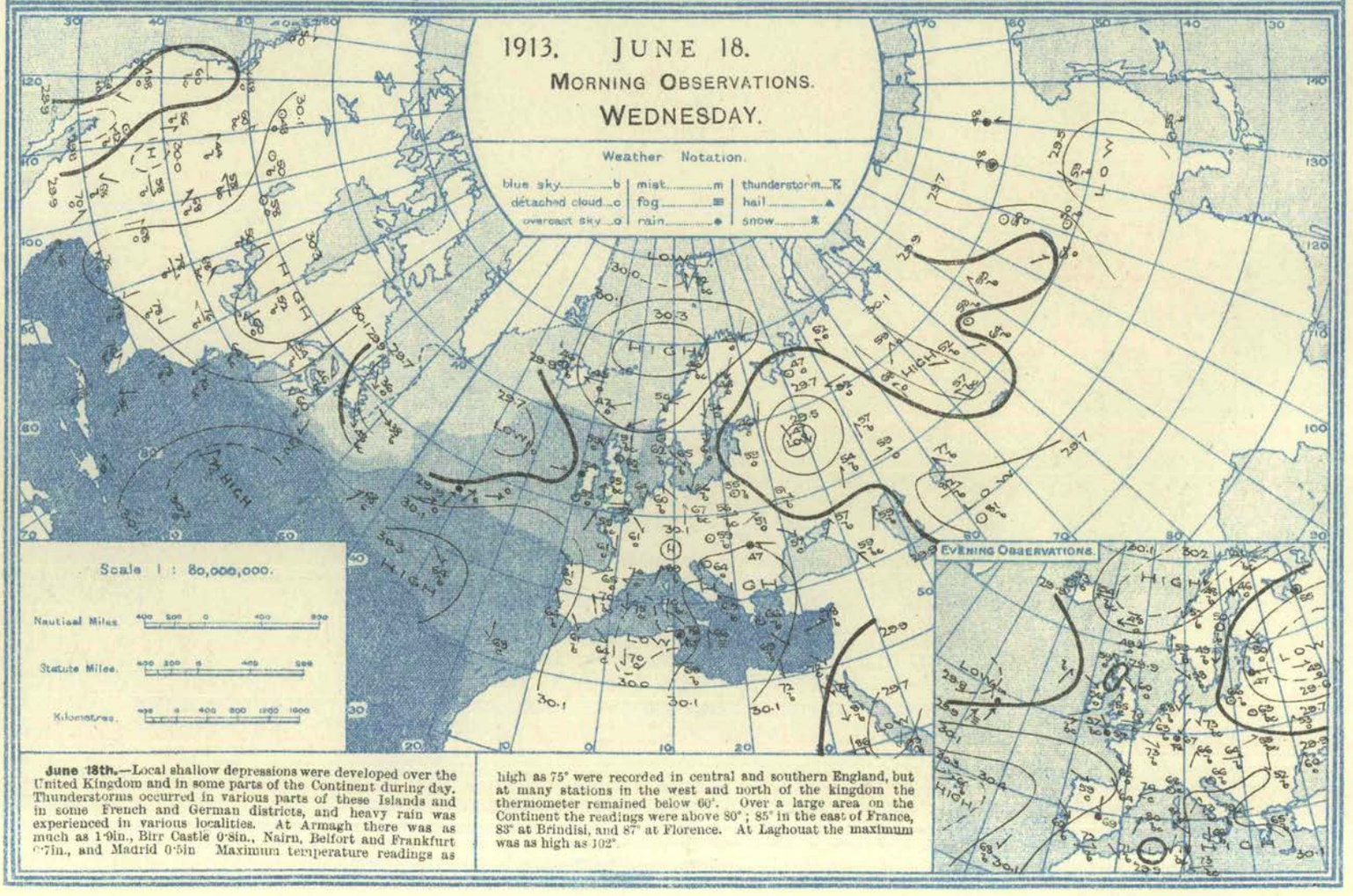
June 15th.—Pressure decreased somewhat during day over the United Kingdom, but little change occurred in the general distribution. Temperature rose to above 75° at a few English stations, and to 70° in central Ireland. In central Europe the maxima were generally lower, but in France and the southern countries readings above 90° were common in places over a large area; 86° at Leghorn and Cagliari, 87° at Lyons, 88° at Patras, 90° at Bordeaux, and 98° at Ile d'Aix. At the inland stations in Algeria the thermometer rose to 95°. Half an inch of rain fell at Kieff, and smaller quantities in other parts of eastern Europe, but as a whole the weather was dry both on the Continent and in these Islands.



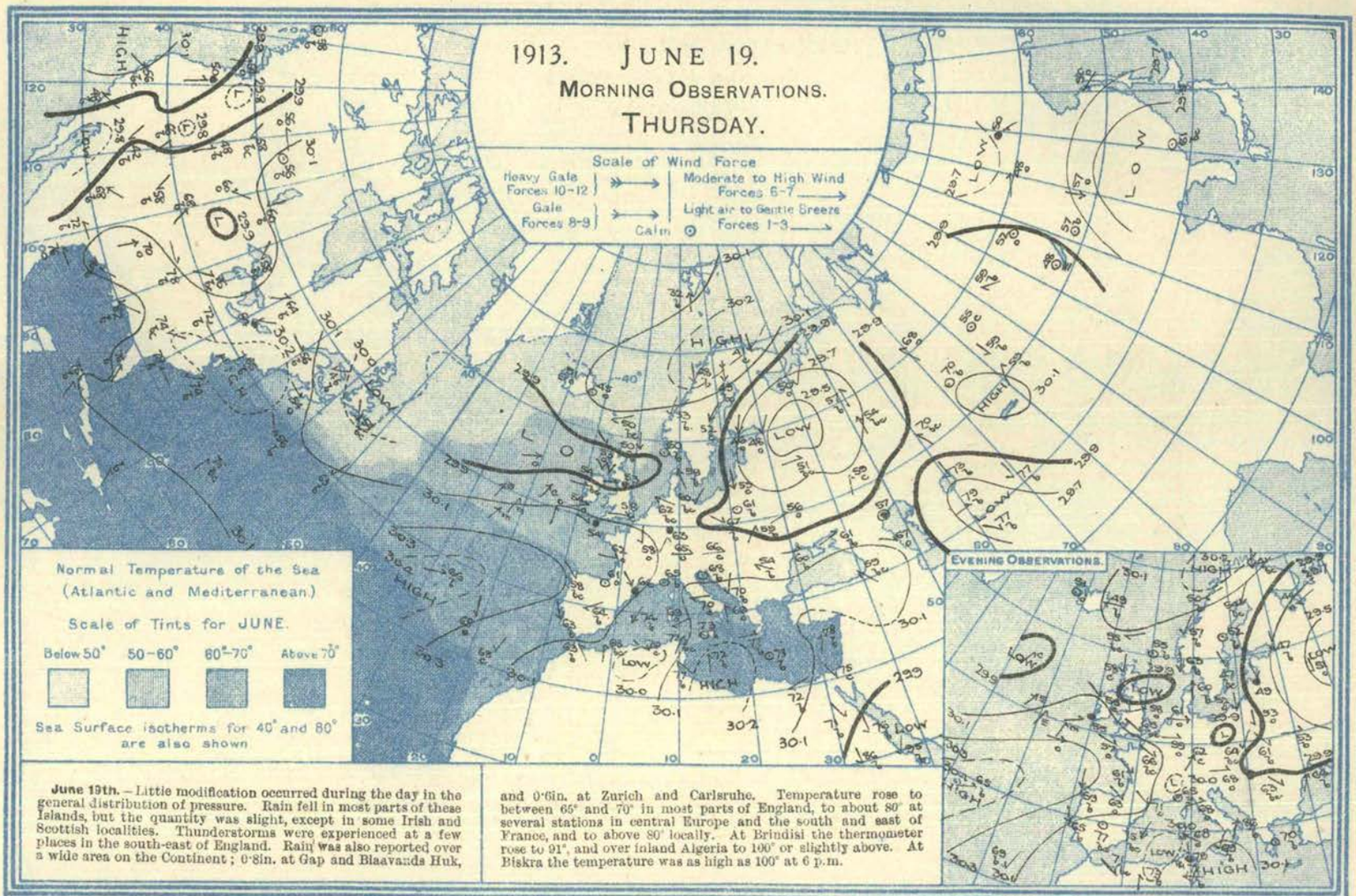
June 16th.—A large and deep depression on the Atlantic caused strong winds and gales over a large portion of the ocean, but little change occurred in the general situation, and over the United Kingdom the wind remained light and variable. Temperature rose to above 80° in many parts of central and southern England, and to above 70° in some parts of Ireland and Scotland. Readings above 80° were also recorded in the Netherlands and a large portion of France, the Peninsula, and Italy, but in central Europe most of the maxima were below 70°. Thunderstorms occurred in the west of France, giving 1·8in. of rain at Le Mans, and rain was also experienced in some parts of Spain and Russia; 1·0in. at Madrid and Kharkoff. In nearly all other regions the weather was quite rainless.



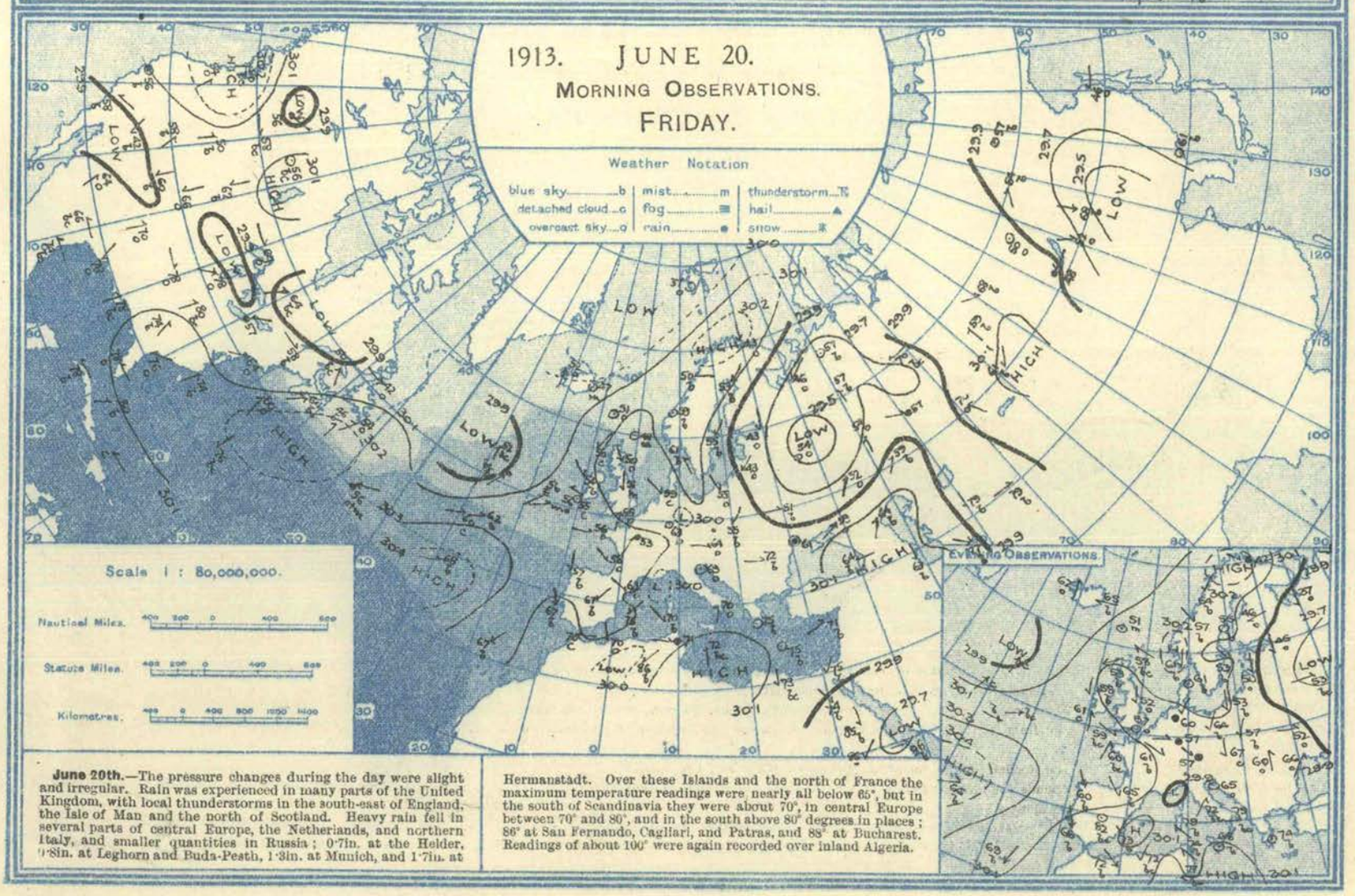
June 17th.—No important change of pressure distribution occurred over Europe as a whole, but a decided decrease took place in the north of Russia. Temperature rose to above 80° in the south-east of England, touching 87° at Greenwich, and exceeded 70° in some parts of Ireland. Readings of 80° and upwards were very common on the Continent; 86° at Brussels, 87° at Lyons, 88° at Florence. Maxima above 70° were recorded in Sweden; at Stockholm the thermometer reached 77°. Local thunderstorms occurred in the north and north-west of these Islands and at a few southern and eastern stations; at Cambridge the rain measured 1·2in. Heavy rain, 1·1in., was also experienced at Biarritz, and smaller quantities fell in some other localities on the Continent.



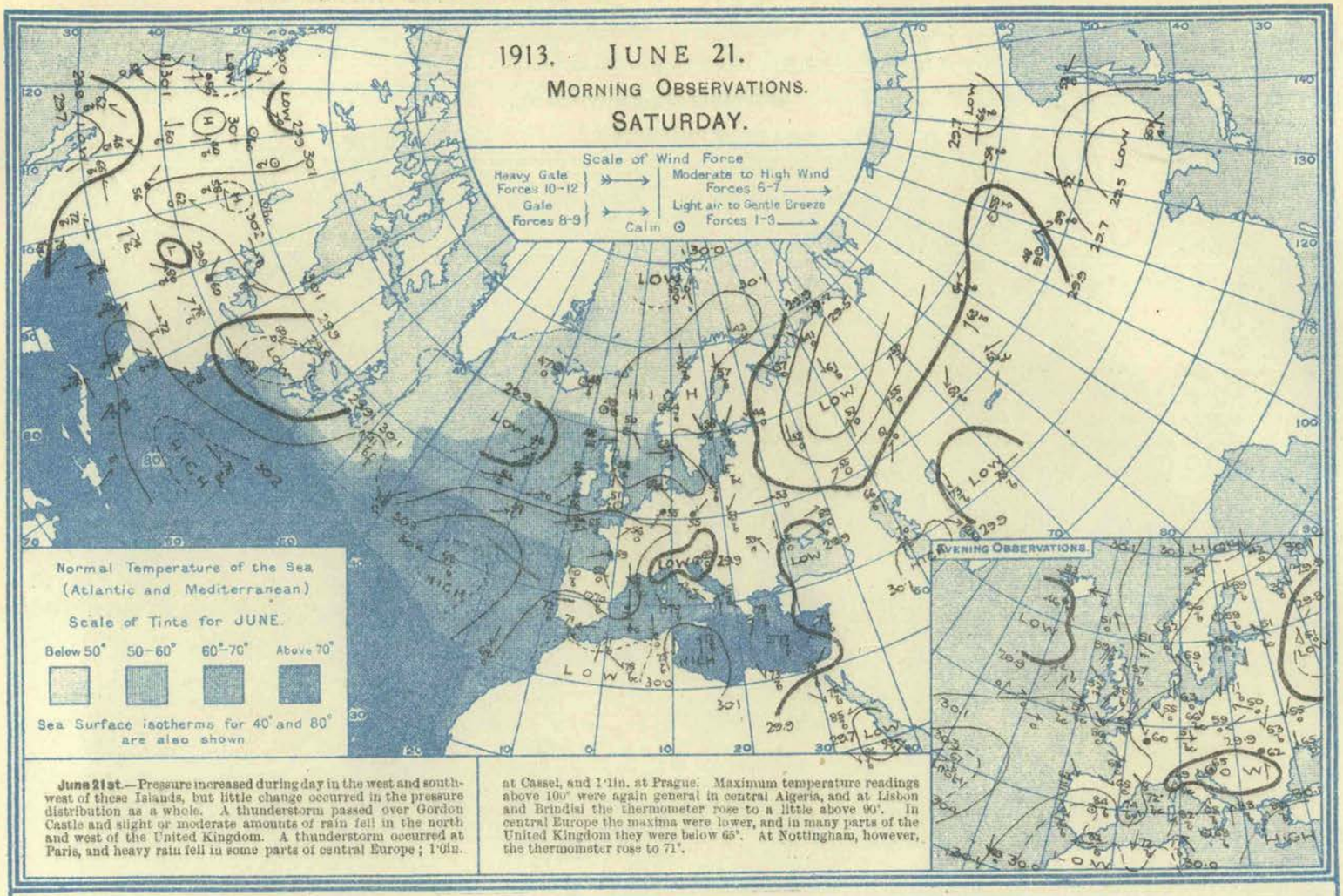
June 18th.—Local shallow depressions were developed over the United Kingdom and in some parts of the Continent during day. Thunderstorms occurred in various parts of these Islands and in some French and German districts, and heavy rain was experienced in various localities. At Armagh there was as much as 1·9in., Birr Castle 0·8in., Nairn, Belfort and Frankfurt 0·7in., and Madrid 0·5in. Maximum temperature readings as high as 75° were recorded in central and southern England, but at many stations in the west and north of the kingdom the thermometer remained below 60°. Over a large area on the Continent the readings were above 80°; 85° in the east of France, 83° at Brindisi, and 87° at Florence. At Laghouat the maximum was as high as 102°.



June 19th.—Little modification occurred during the day in the general distribution of pressure. Rain fell in most parts of these Islands, but the quantity was slight, except in some Irish and Scottish localities. Thunderstorms were experienced at a few places in the south-east of England. Rain was also reported over a wide area on the Continent; 0·8in. at Gap and Blaavands Huk, and 0·6in. at Zurich and Carlsruhe. Temperature rose to between 65° and 70° in most parts of England, to about 80° at several stations in central Europe and the south and east of France, and to above 80° locally. At Brindisi the thermometer rose to 91°, and over inland Algeria to 100° or slightly above. At Biskra the temperature was as high as 100° at 6 p.m.

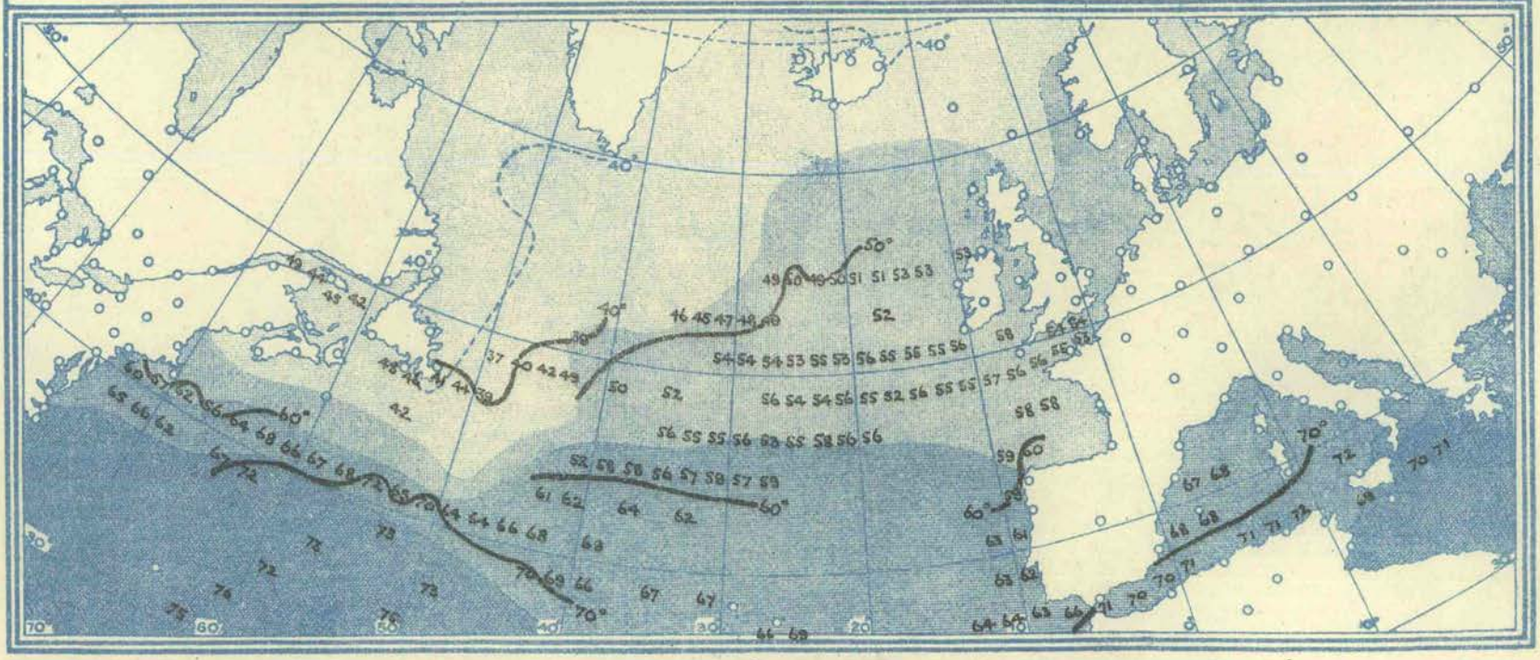


June 20th.—The pressure changes during the day were slight and irregular. Rain was experienced in many parts of the United Kingdom, with local thunderstorms in the south-east of England, the Isle of Man and the north of Scotland. Heavy rain fell in several parts of central Europe, the Netherlands, and northern Italy, and smaller quantities in Russia; 0·7in. at the Helder, 0·8in. at Leghorn and Buda-Pesth, 1·3in. at Munich, and 1·7in. at Hermanstadt. Over these Islands and the north of France the maximum temperature readings were nearly all below 65°, but in the south of Scandinavia they were about 70°, in central Europe between 70° and 80°, and in the south above 80° degrees in places; 86° at San Fernando, Cagliari, and Patras, and 88° at Bucharest. Readings of about 100° were again recorded over inland Algeria.



June 21st.—Pressure increased during day in the west and south-west of these Islands, but little change occurred in the pressure distribution as a whole. A thunderstorm passed over Gordon Castle and slight or moderate amounts of rain fell in the north and west of the United Kingdom. A thunderstorm occurred at Paris, and heavy rain fell in some parts of central Europe; 1·0in. at Cassel, and 1·1in. at Prague. Maximum temperature readings above 100° were again general in central Algeria, and at Lisbon and Brindisi the thermometer rose to a little above 90°. In central Europe the maxima were lower, and in many parts of the United Kingdom they were below 65°. At Nottingham, however, the thermometer rose to 71°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 21ST JUNE, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain and in the Azores. These times refer to Greenwich Mean Time.

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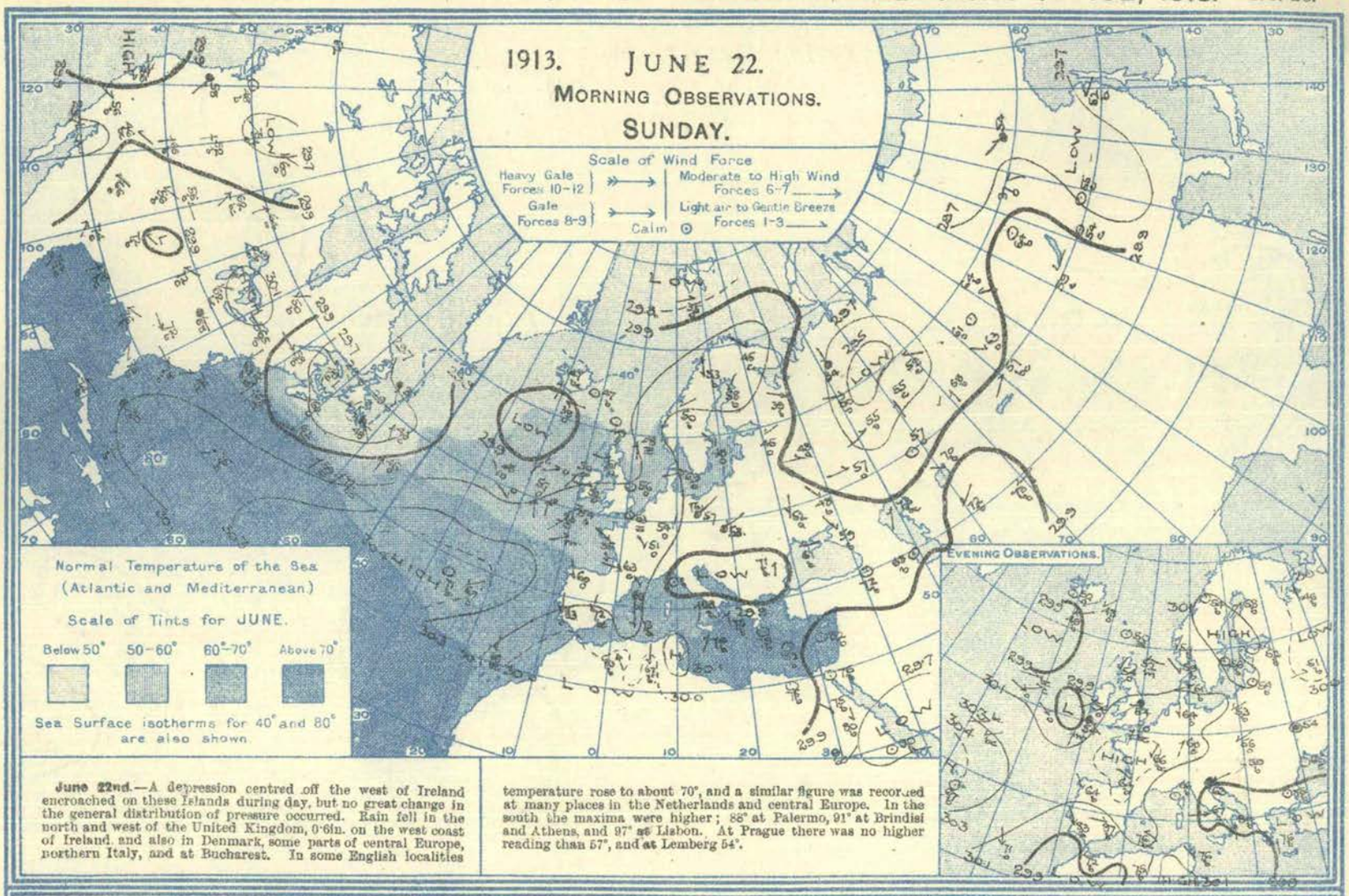
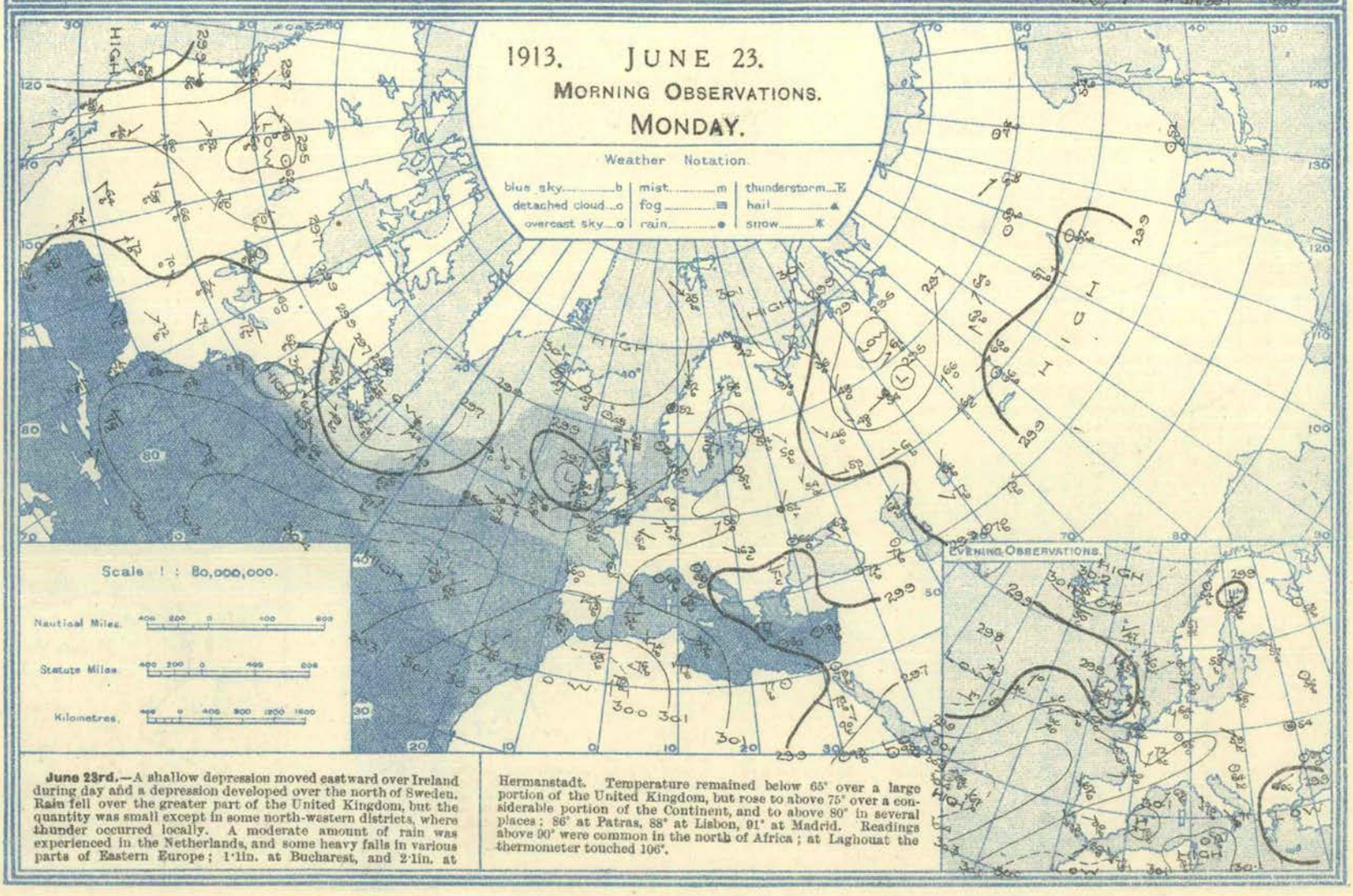
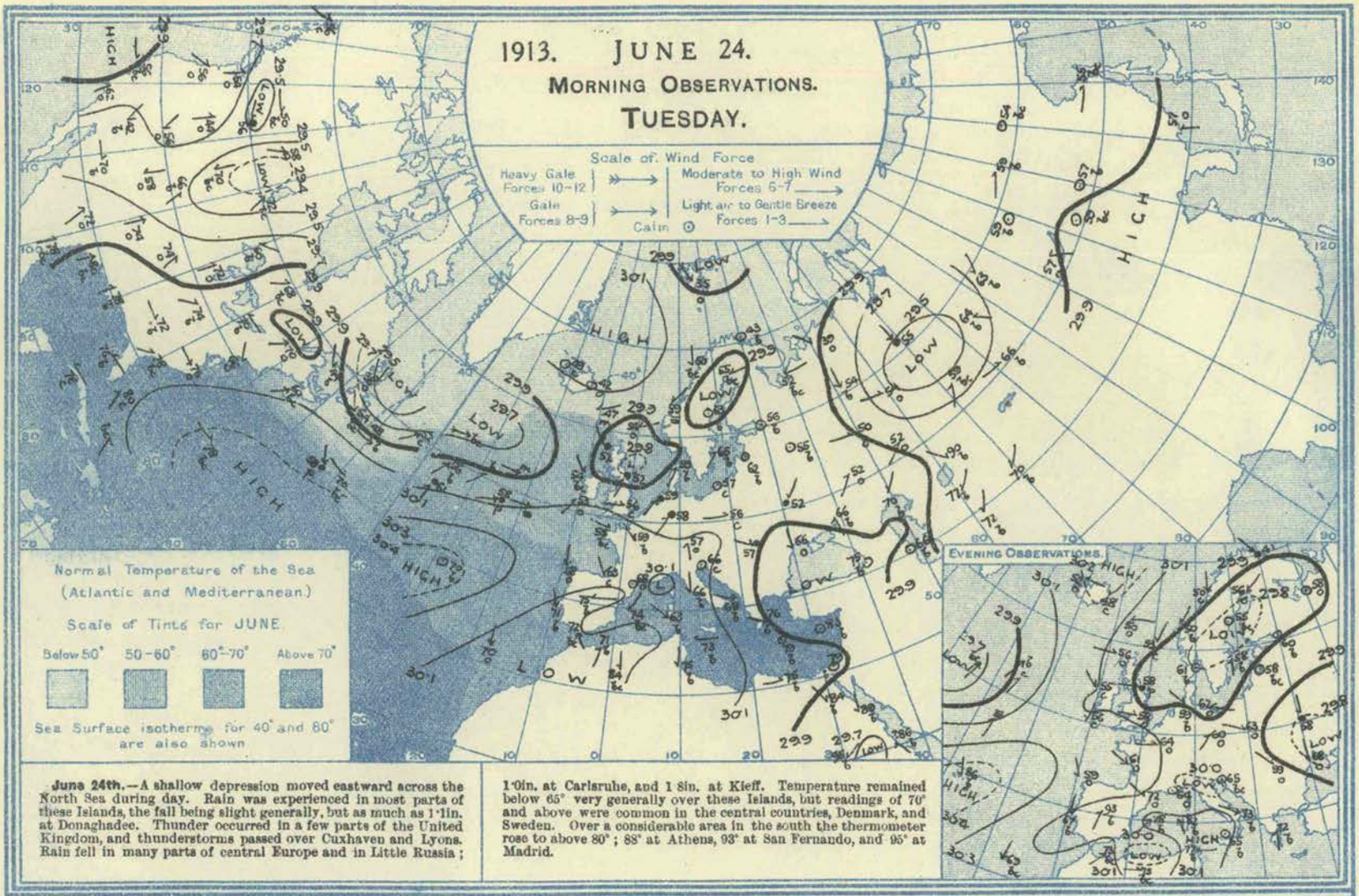
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40° and 80° are shown by blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



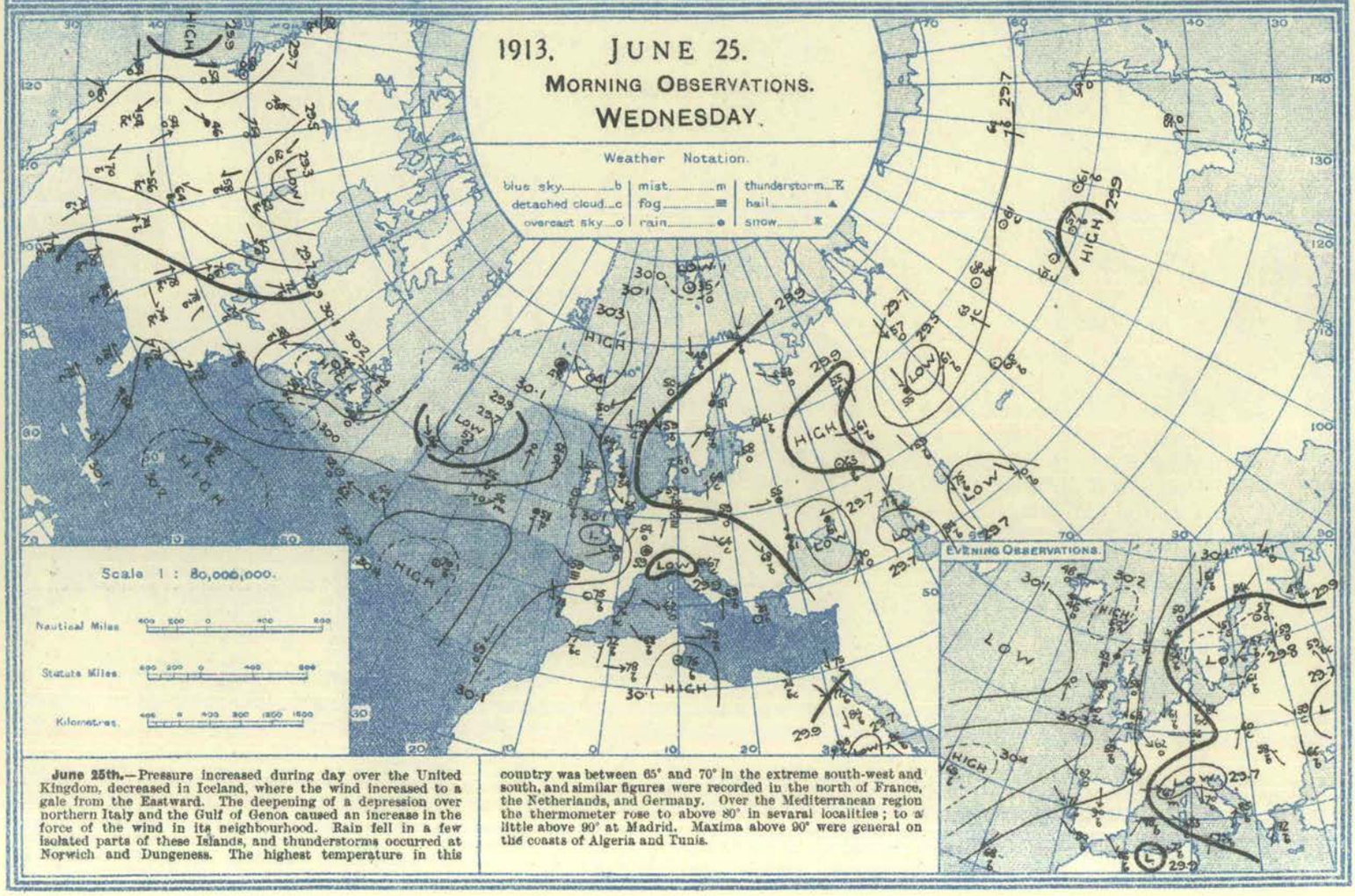
June 22nd.—A depression centred off the west of Ireland encroached on these Islands during day, but no great change in the general distribution of pressure occurred. Rain fell in the north and west of the United Kingdom, 0·6in. on the west coast of Ireland, and also in Denmark, some parts of central Europe, northern Italy, and at Bucharest. In some English localities temperature rose to about 70°, and a similar figure was recorded at many places in the Netherlands and central Europe. In the south the maxima were higher; 86° at Palermo, 91° at Brindisi and Athens, and 97° at Lisbon. At Prague there was no higher reading than 57°, and at Lemberg 54°.



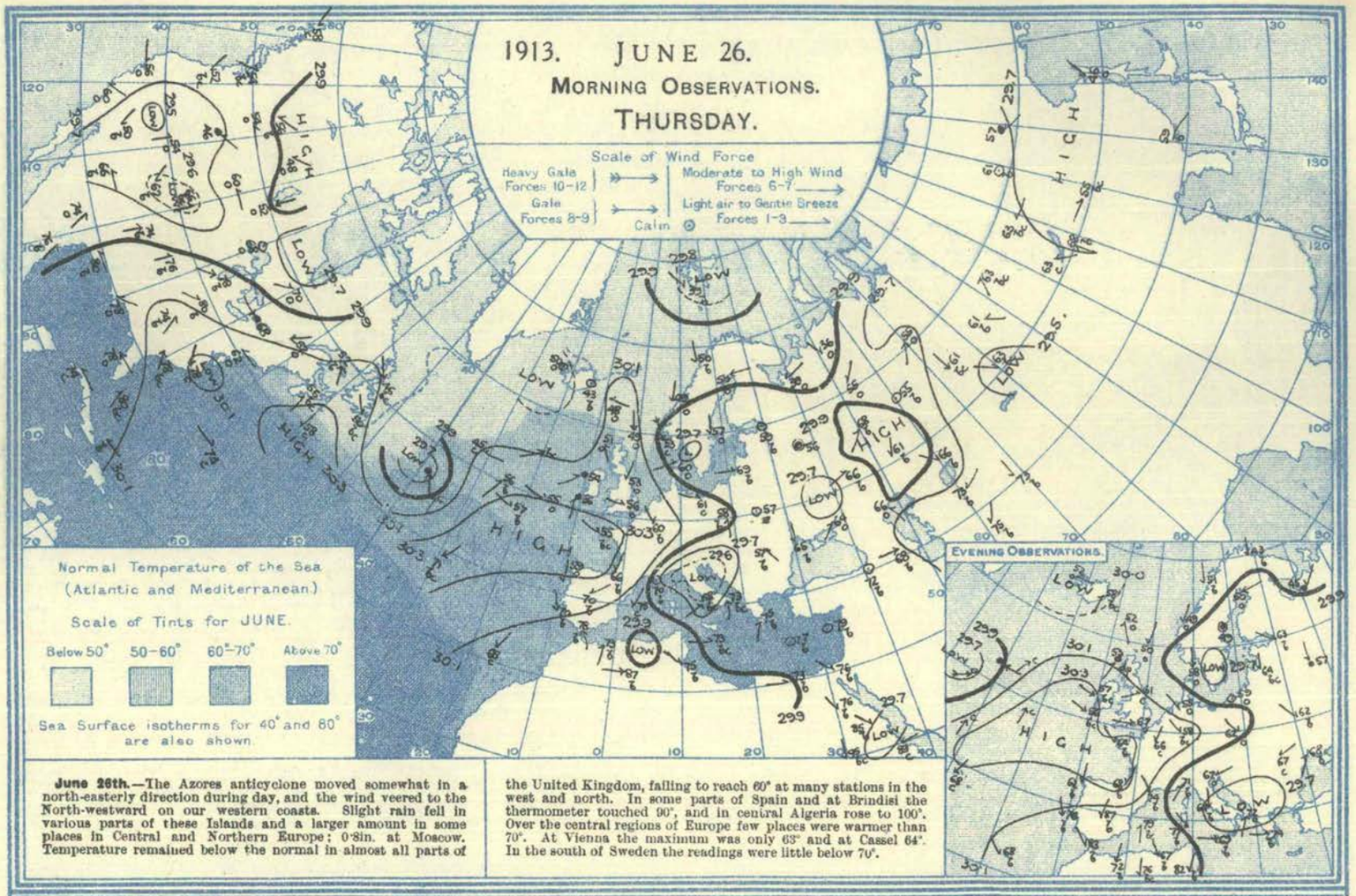
June 23rd.—A shallow depression moved eastward over Ireland during day and a depression developed over the north of Sweden. Rain fell over the greater part of the United Kingdom, but the quantity was small except in some north-western districts, where thunder occurred locally. A moderate amount of rain was experienced in the Netherlands, and some heavy falls in various parts of Eastern Europe; 1·1in. at Bucharest, and 2·1in. at Hermanstadt. Temperature remained below 65° over a large portion of the United Kingdom, but rose to above 75° over a considerable portion of the Continent, and to above 80° in several places; 86° at Patras, 88° at Lisbon, 91° at Madrid. Readings above 90° were common in the north of Africa; at Laghouat the thermometer touched 106°.



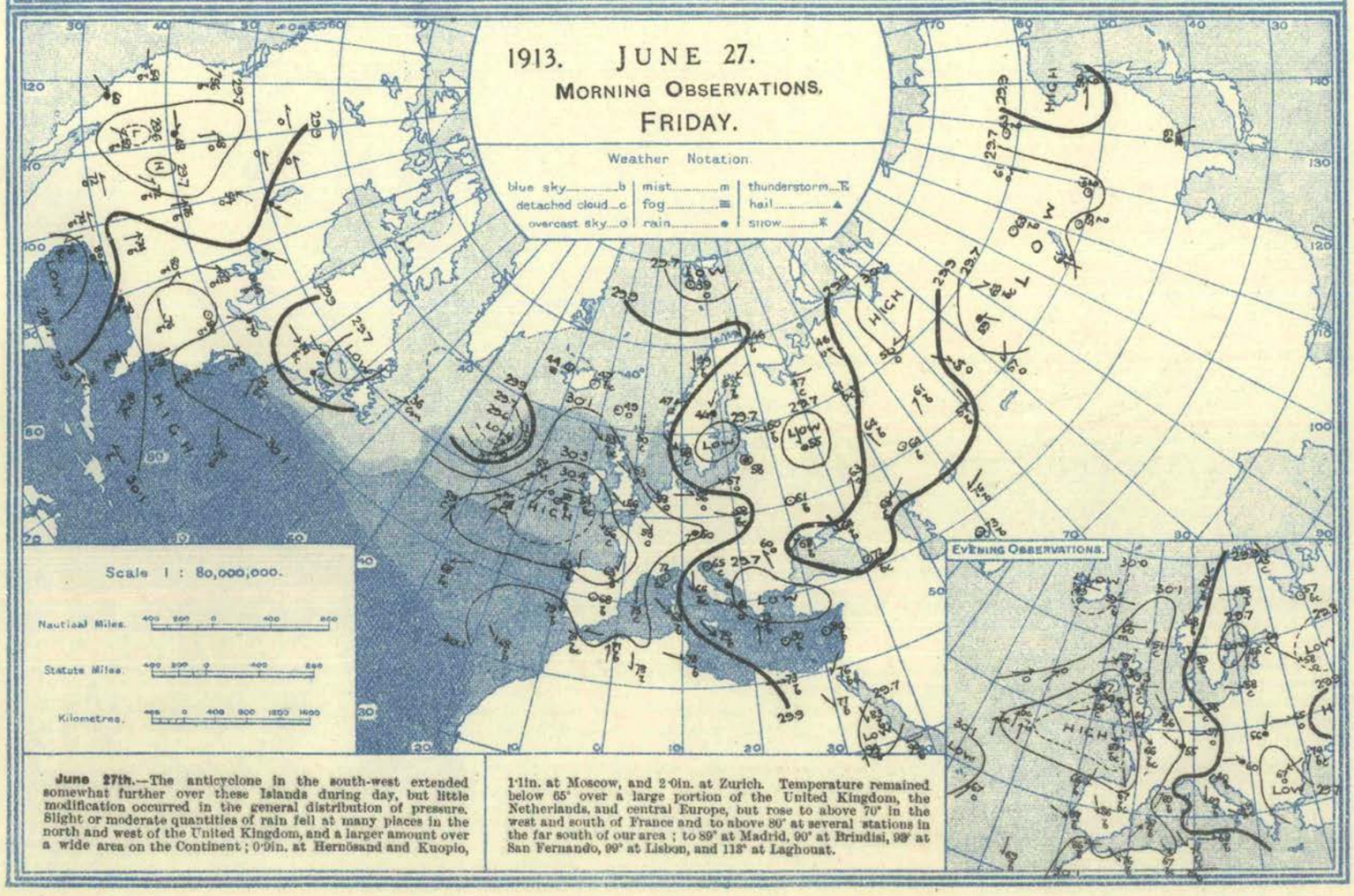
June 24th.—A shallow depression moved eastward across the North Sea during day. Rain was experienced in most parts of these Islands, the fall being slight generally, but as much as 1·1in. at Donaghadee. Thunder occurred in a few parts of the United Kingdom, and thunderstorms passed over Cuxhaven and Lyons. Rain fell in many parts of central Europe and in Little Russia; 1·0in. at Carlsruhe, and 1·8in. at Kieff. Temperature remained below 65° very generally over these Islands, but readings of 70° and above were common in the central countries, Denmark, and Sweden. Over a considerable area in the south the thermometer rose to above 80°; 88° at Athens, 93° at San Fernando, and 95° at Madrid.



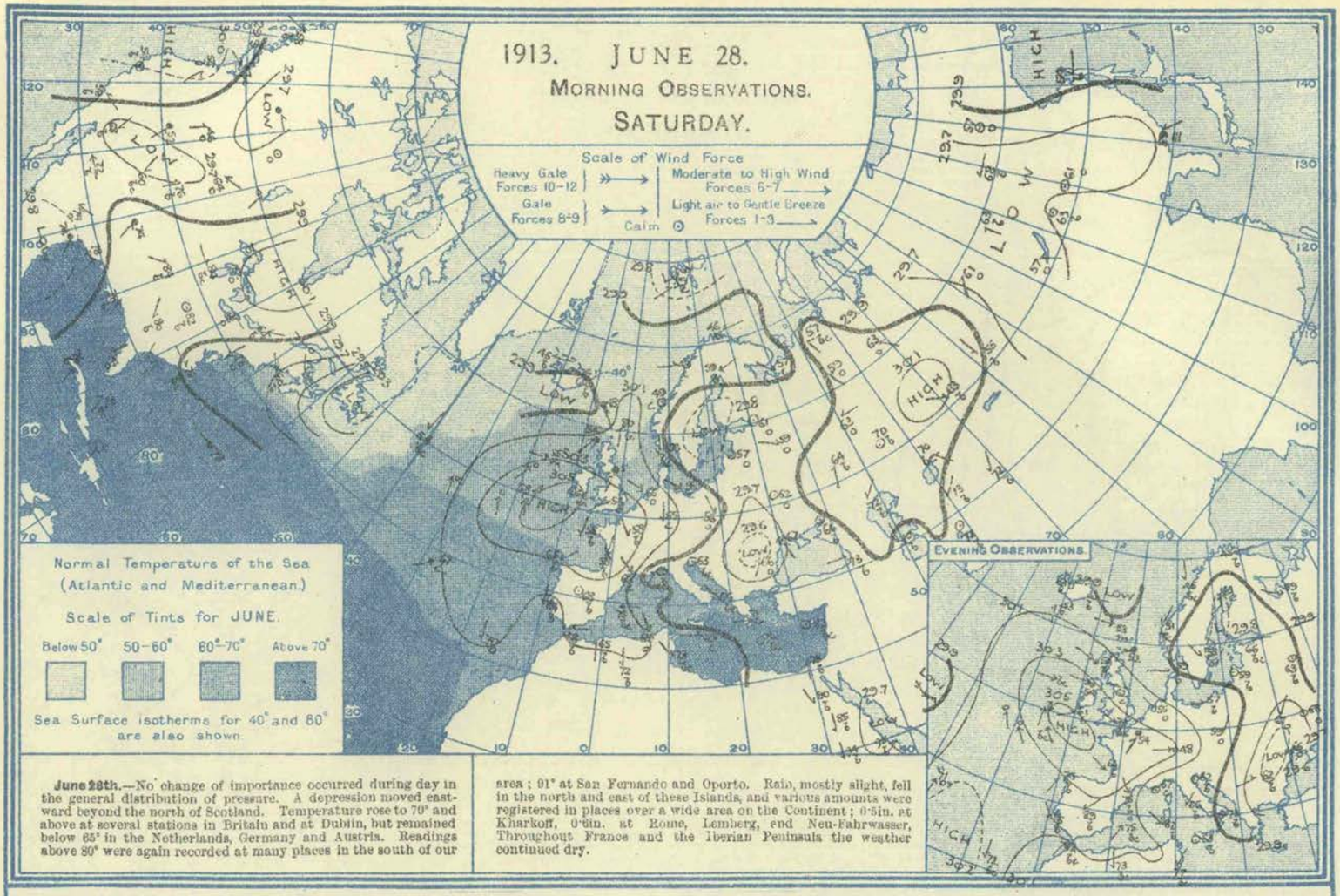
June 25th.—Pressure increased during day over the United Kingdom, decreased in Iceland, where the wind increased to a gale from the Eastward. The deepening of a depression over northern Italy and the Gulf of Genoa caused an increase in the force of the wind in its neighbourhood. Rain fell in a few isolated parts of these Islands, and thunderstorms occurred at Norwich and Dungeness. The highest temperature in this country was between 65° and 70° in the extreme south-west and south, and similar figures were recorded in the north of France, the Netherlands, and Germany. Over the Mediterranean region the thermometer rose to above 80° in several localities; to a little above 90° at Madrid. Maxima above 90° were general on the coasts of Algeria and Tunis.



June 26th.—The Azores anticyclone moved somewhat in a north-easterly direction during day, and the wind veered to the North-westward on our western coasts. Slight rain fell in various parts of these Islands and a larger amount in some places in Central and Northern Europe; 0·8in. at Moscow. Temperature remained below the normal in almost all parts of the United Kingdom, falling to reach 60° at many stations in the west and north. In some parts of Spain and at Brindisi the thermometer touched 90°, and in central Algeria rose to 100°. Over the central regions of Europe few places were warmer than 70°. At Vienna the maximum was only 63° and at Cassel 64°. In the south of Sweden the readings were little below 70°.

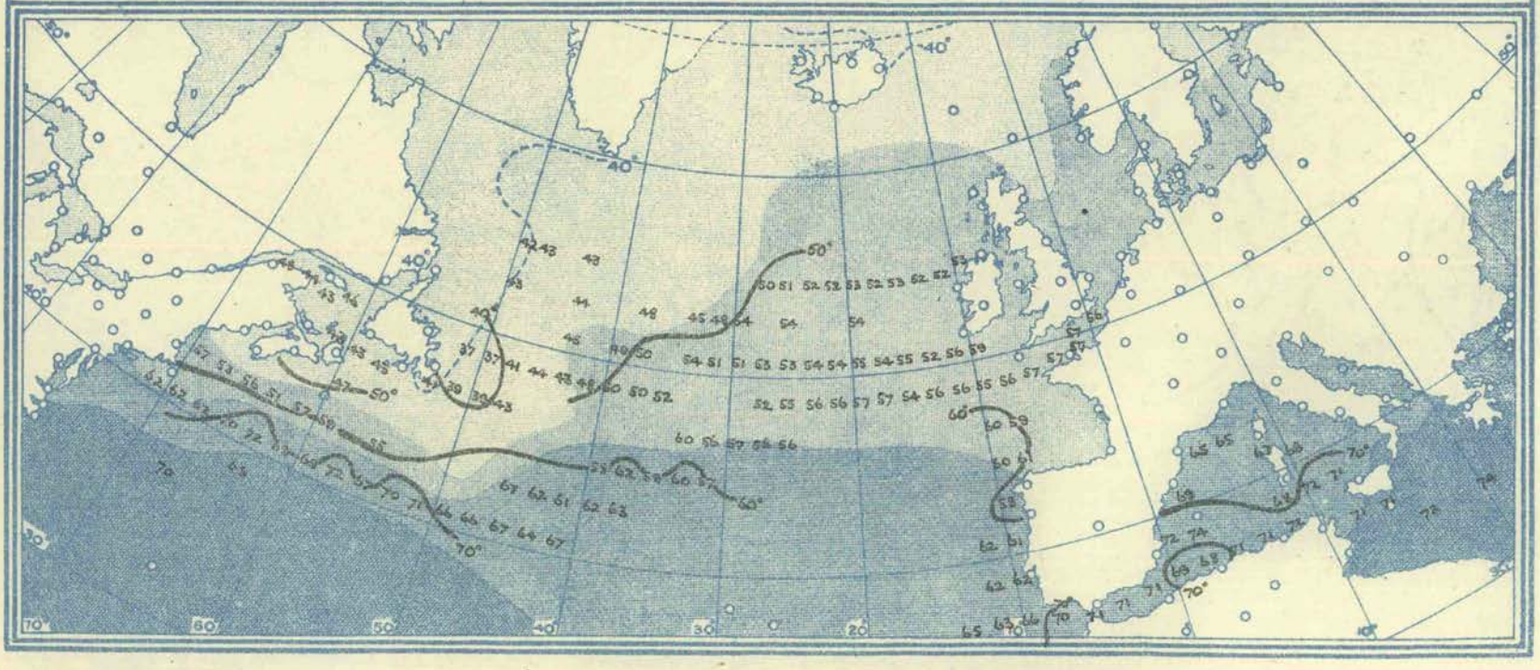


June 27th.—The anticyclone in the south-west extended somewhat further over these Islands during day, but little modification occurred in the general distribution of pressure. Slight or moderate quantities of rain fell at many places in the north and west of the United Kingdom, and a larger amount over a wide area on the Continent; 0·9in. at Hernösand and Kuopio, 1·1in. at Moscow, and 2·0in. at Zurich. Temperature remained below 65° over a large portion of the United Kingdom, the Netherlands, and central Europe, but rose to above 70° in the west and south of France and to above 80° at several stations in the far south of our area; to 89° at Madrid, 90° at Brindisi, 93° at San Fernando, 99° at Lisbon, and 118° at Laghouat.



June 28th.—No change of importance occurred during day in the general distribution of pressure. A depression moved eastward beyond the north of Scotland. Temperature rose to 70° and above at several stations in Britain and at Dublin, but remained below 65° in the Netherlands, Germany and Austria. Readings above 80° were again recorded at many places in the south of our area; 91° at San Fernando and Oporto. Rain, mostly slight, fell in the north and east of these Islands, and various amounts were registered in places over a wide area on the Continent; 0·5in. at Kharkoff, 0·6in. at Rome, Lemberg, and Neu-Fahrwasser. Throughout France and the Iberian Peninsula the weather continued dry.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 28TH JUNE, 1913.



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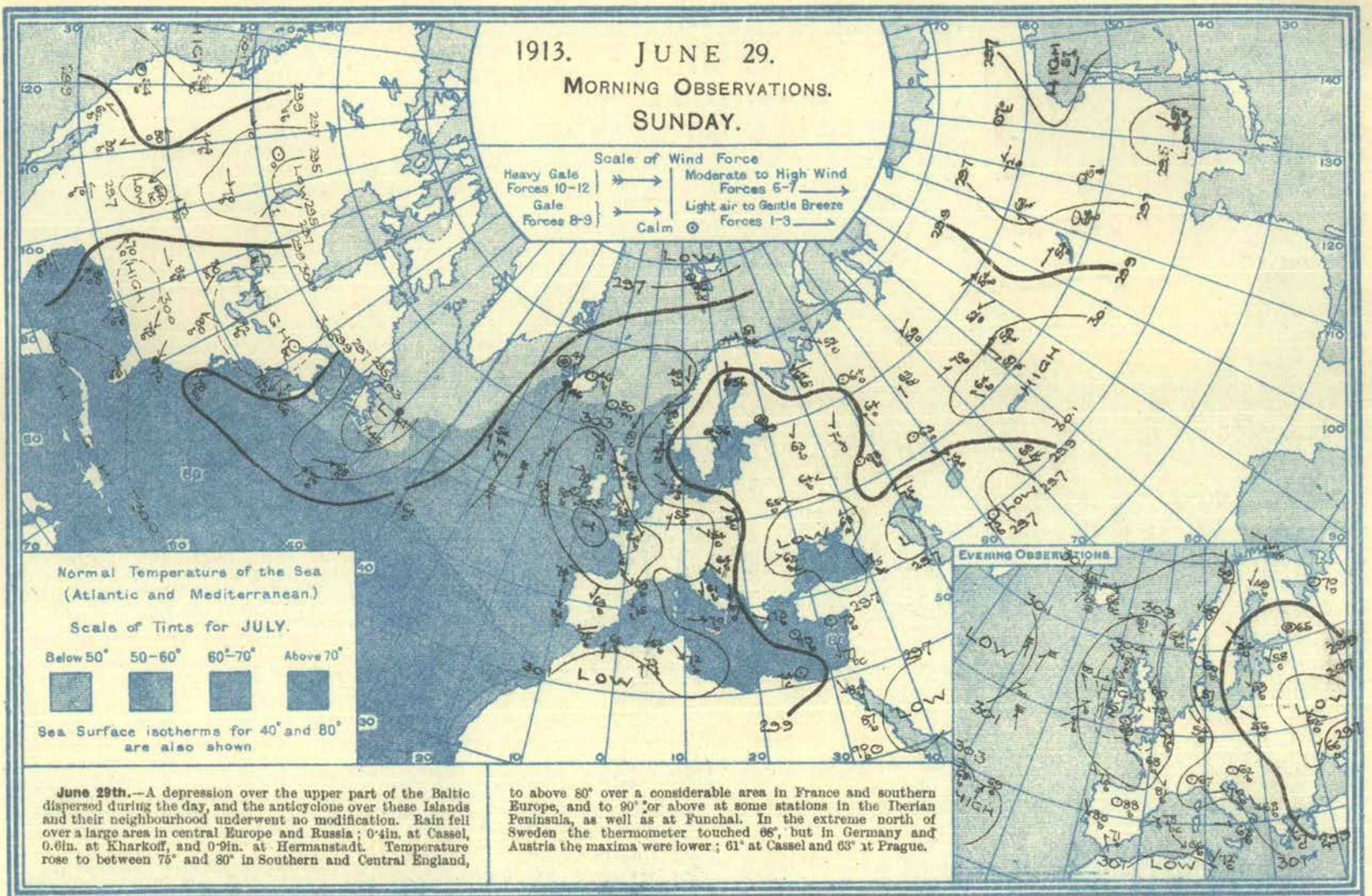
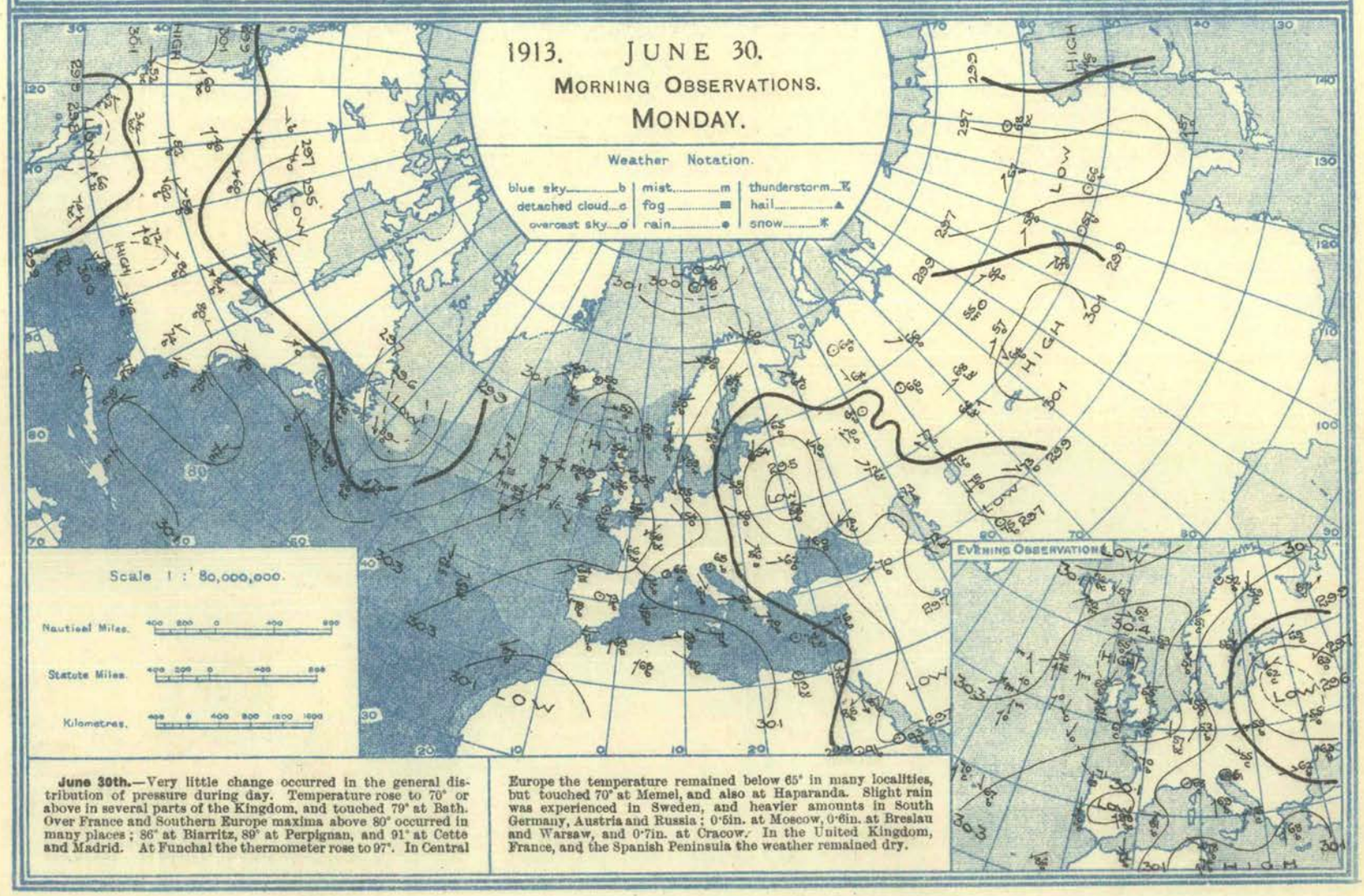
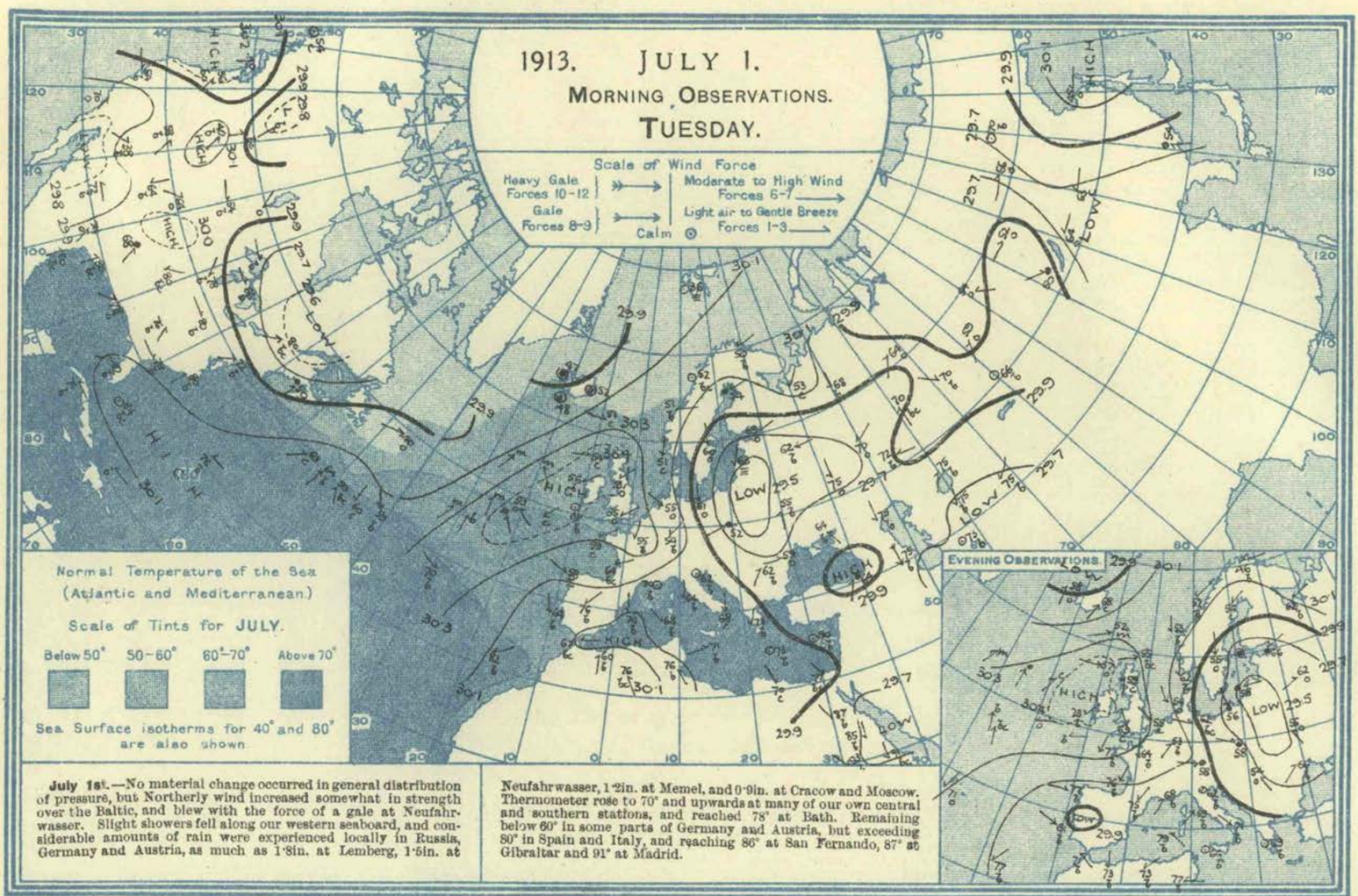


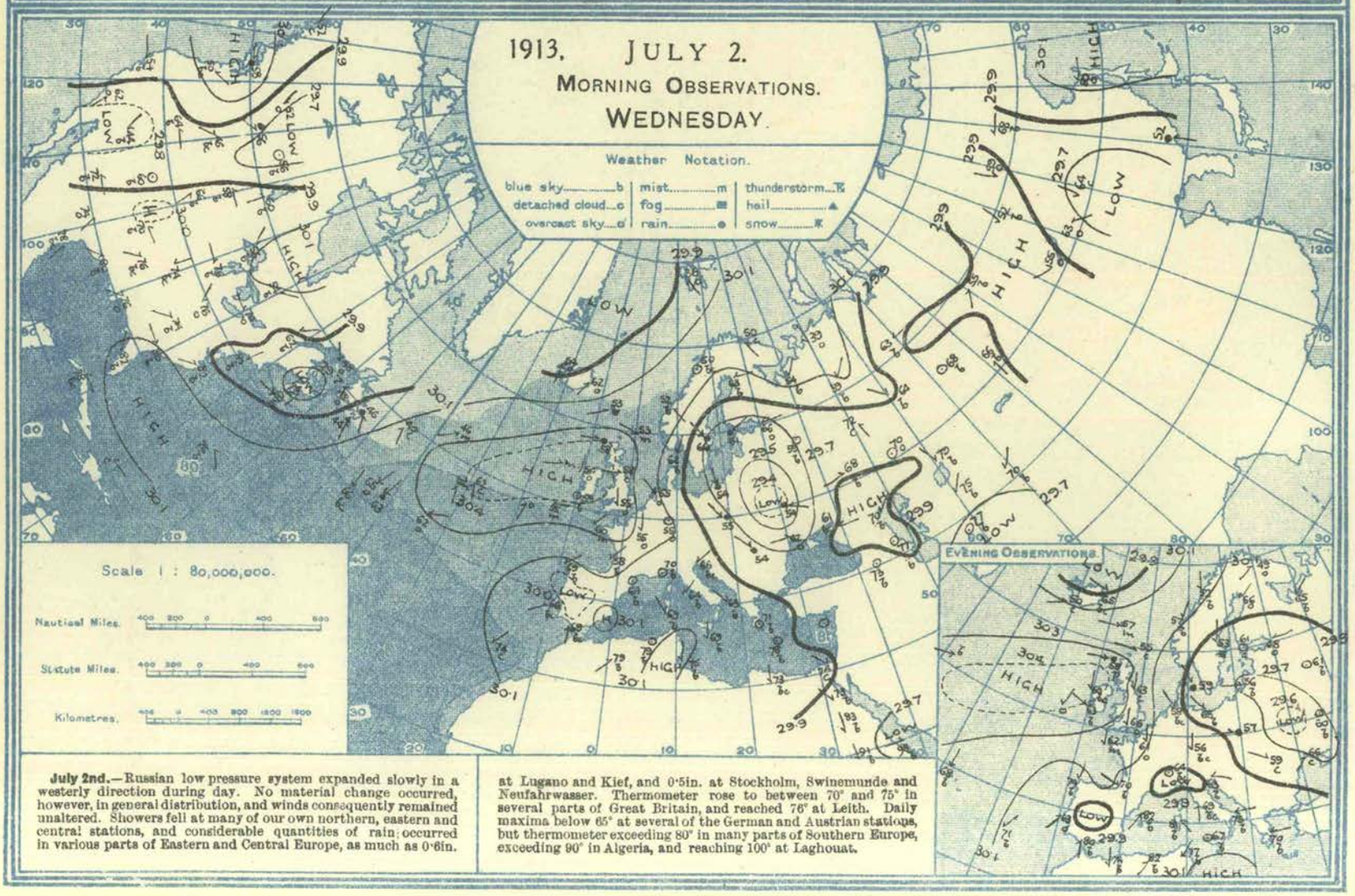
June 29th.—A depression over the upper part of the Baltic dispersed during the day, and the anticyclone over these Islands and their neighbourhood underwent no modification. Rain fell over a large area in central Europe and Russia; 0·4in. at Cassel, 0.6in. at Kharkoff, and 0·9in. at Hermanstadt. Temperature rose to between 75° and 80° in Southern and Central England, to above 80° over a considerable area in France and southern Europe, and to 90° or above at some stations in the Iberian Peninsula, as well as at Funchal. In the extreme north of Sweden the thermometer touched 68°, but in Germany and Austria the maxima were lower; 61° at Cassel and 63° at Prague.



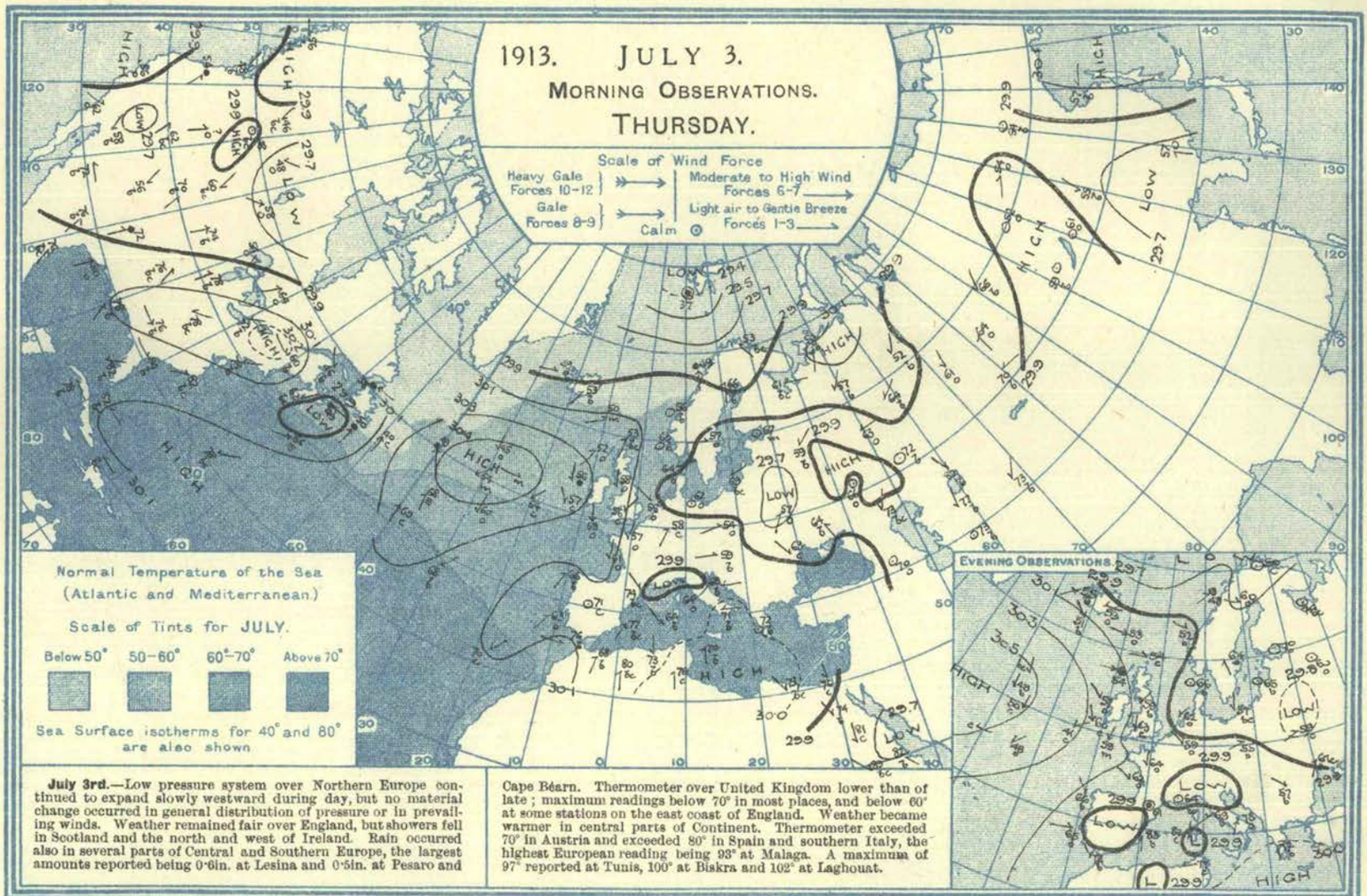
June 30th.—Very little change occurred in the general distribution of pressure during day. Temperature rose to 70° or above in several parts of the Kingdom, and touched 79° at Bath. Over France and Southern Europe maxima above 80° occurred in many places; 86° at Biarritz, 89° at Perpignan, and 91° at Cette and Madrid. At Funchal the thermometer rose to 97°. In Central Europe the temperature remained below 65° in many localities, but touched 70° at Memel, and also at Haparanda. Slight rain was experienced in Sweden, and heavier amounts in South Germany, Austria and Russia; 0·5in. at Moscow, 0·6in. at Breslau and Warsaw, and 0·7in. at Cracow. In the United Kingdom, France, and the Spanish Peninsula the weather remained dry.



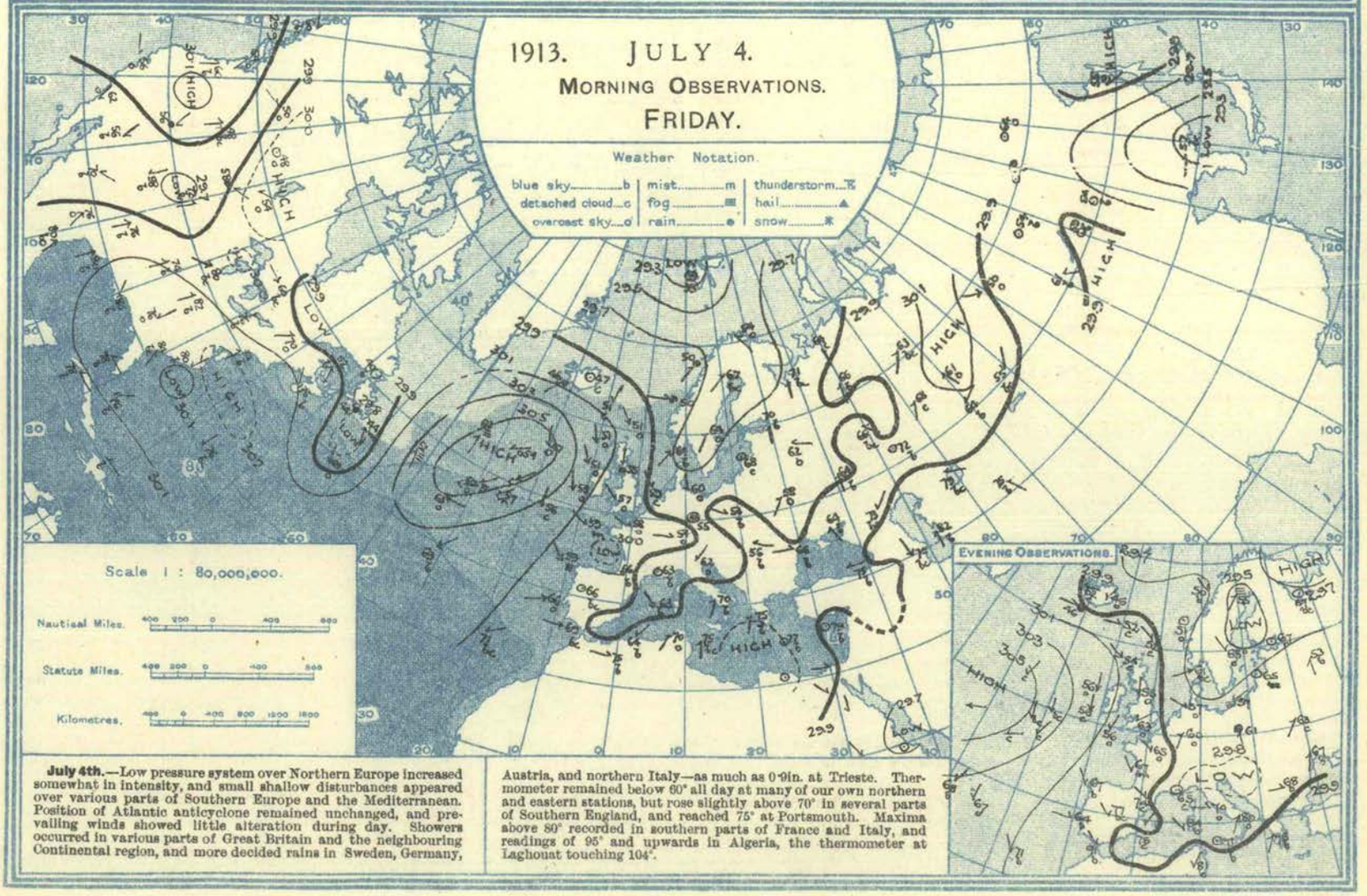
July 1st.—No material change occurred in general distribution of pressure, but Northerly wind increased somewhat in strength over the Baltic, and blew with the force of a gale at Neufahrwasser. Slight showers fell along our western seaboard, and considerable amounts of rain were experienced locally in Russia, Germany and Austria, as much as 1·8in. at Lemberg, 1·5in. at Neufahrwasser, 1·2in. at Memel, and 0·9in. at Cracow and Moscow. Thermometer rose to 70° and upwards at many of our own central and southern stations, and reached 78° at Bath. Remaining below 60° in some parts of Germany and Austria, but exceeding 80° in Spain and Italy, and reaching 86° at San Fernando, 87° at Gibraltar and 91° at Madrid.



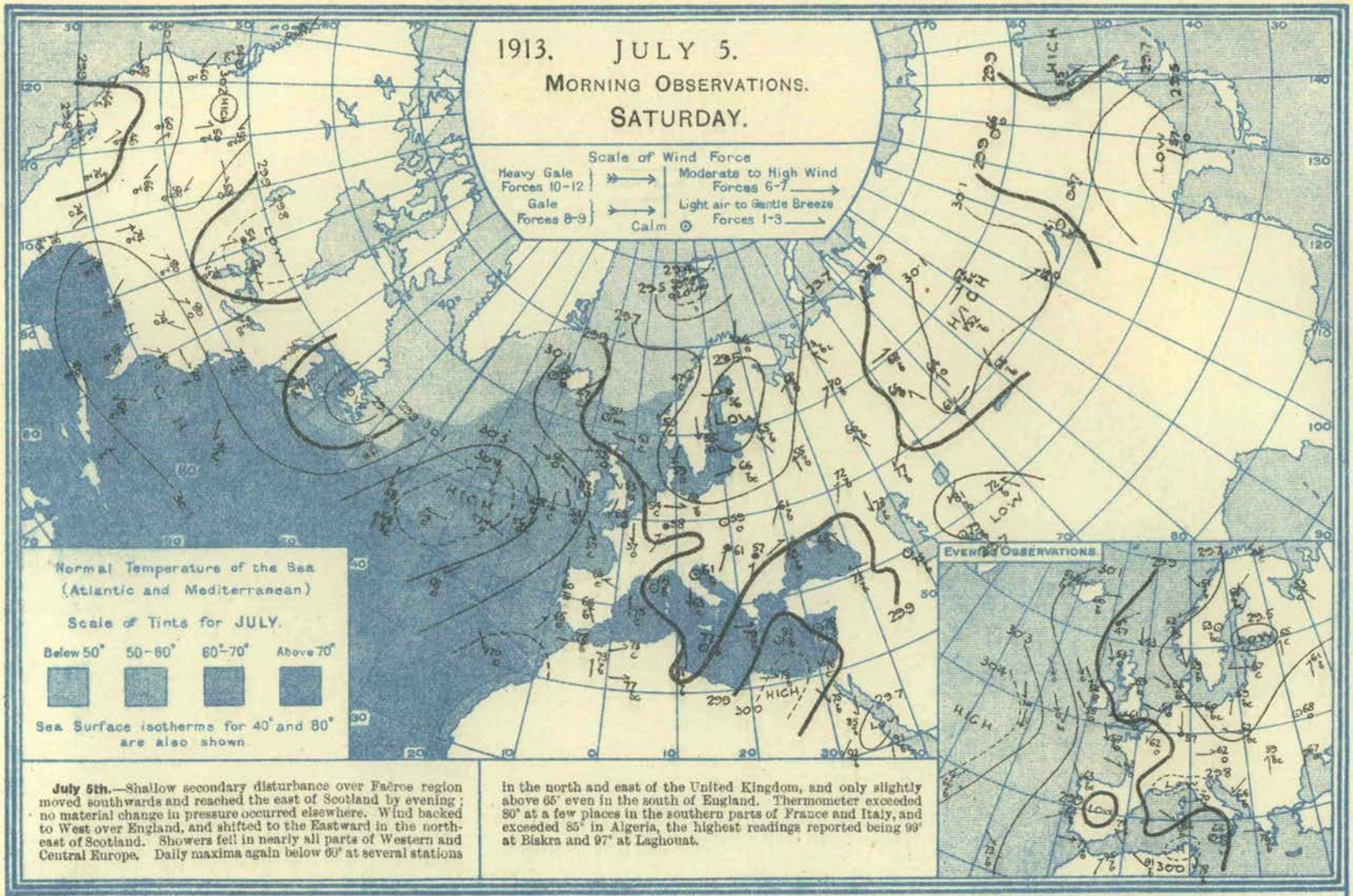
July 2nd.—Russian low pressure system expanded slowly in a westerly direction during day. No material change occurred, however, in general distribution, and winds consequently remained unaltered. Showers fell at many of our own northern, eastern and central stations, and considerable quantities of rain occurred in various parts of Eastern and Central Europe, as much as 0·6in. at Lugano and Kief, and 0·5in. at Stockholm, Swinemunde and Neufahrwasser. Thermometer rose to between 70° and 75° in several parts of Great Britain, and reached 76° at Leith. Daily maxima below 65° at several of the German and Austrian stations, but thermometer exceeding 80° in many parts of Southern Europe, exceeding 90° in Algeria, and reaching 100° at Laghouat.



July 3rd.—Low pressure system over Northern Europe continued to expand slowly westward during day, but no material change occurred in general distribution of pressure or in prevailing winds. Weather remained fair over England, but showers fell in Scotland and the north and west of Ireland. Rain occurred also in several parts of Central and Southern Europe, the largest amounts reported being 0·6in. at Lesina and 0·5in. at Pesaro and Cape Béarn. Thermometer over United Kingdom lower than of late; maximum readings below 70° in most places, and below 60° at some stations on the east coast of England. Weather became warmer in central parts of Continent. Thermometer exceeded 70° in Austria and exceeded 80° in Spain and southern Italy, the highest European reading being 93° at Malaga. A maximum of 97° reported at Tunis, 100° at Biskra and 102° at Laghouat.

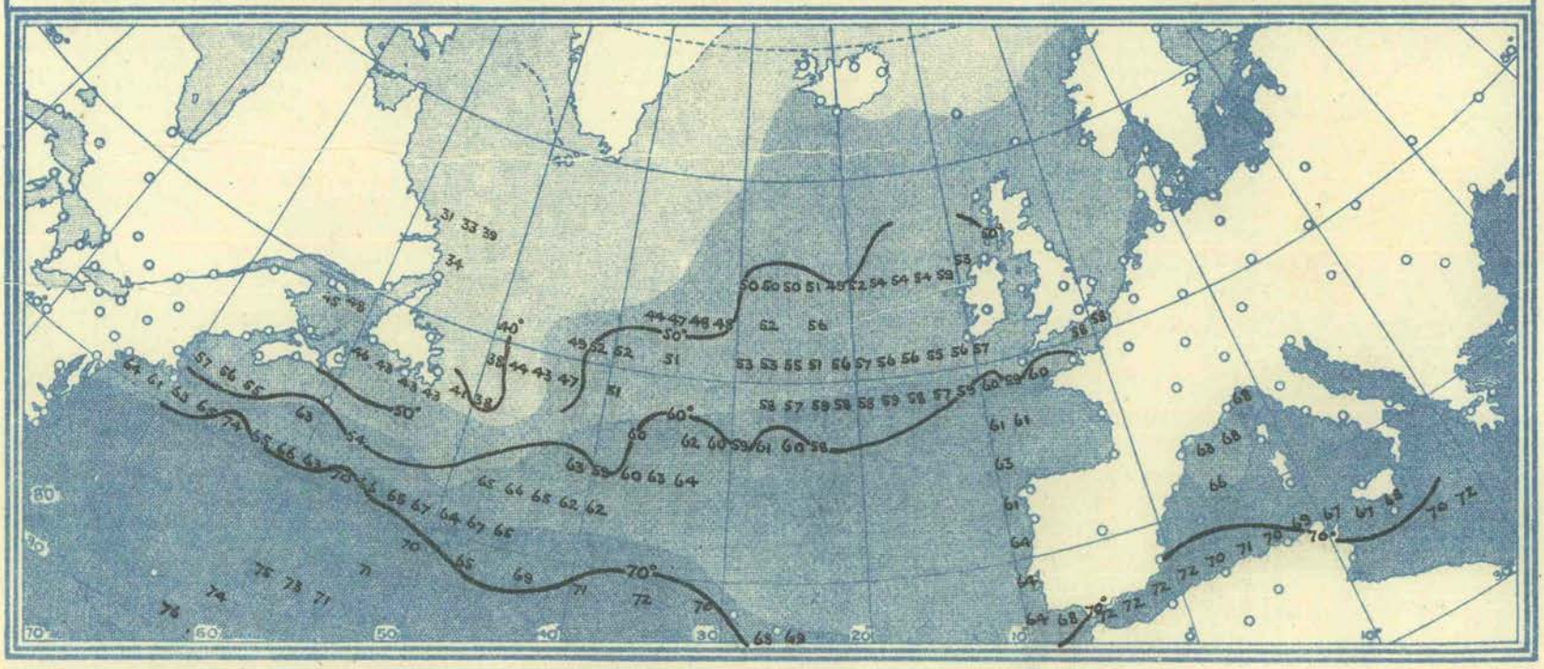


July 4th.—Low pressure system over Northern Europe increased somewhat in intensity, and small shallow disturbances appeared over various parts of Southern Europe and the Mediterranean. Position of Atlantic anticyclone remained unchanged, and prevailing winds showed little alteration during day. Showers occurred in various parts of Great Britain and the neighbouring Continental region, and more decided rains in Sweden, Germany, Austria, and northern Italy—as much as 0·9in. at Trieste. Thermometer remained below 60° all day at many of our own northern and eastern stations, but rose slightly above 70° in several parts of Southern England, and reached 75° at Portsmouth. Maxima above 80° recorded in southern parts of France and Italy, and readings of 95° and upwards in Algeria, the thermometer at Laghouat touching 104°.



July 5th.—Shallow secondary disturbance over Faëroe region moved southwards and reached the east of Scotland by evening; no material change in pressure occurred elsewhere. Wind backed to West over England, and shifted to the Eastward in the north-east of Scotland. Showers fell in nearly all parts of Western and Central Europe. Daily maxima again below 60° at several stations in the north and east of the United Kingdom, and only slightly above 65° even in the south of England. Thermometer exceeded 80° at a few places in the southern parts of France and Italy, and exceeded 85° in Algeria, the highest readings reported being 99° at Biskra and 97° at Laghouat.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 5TH. JULY, 1913.



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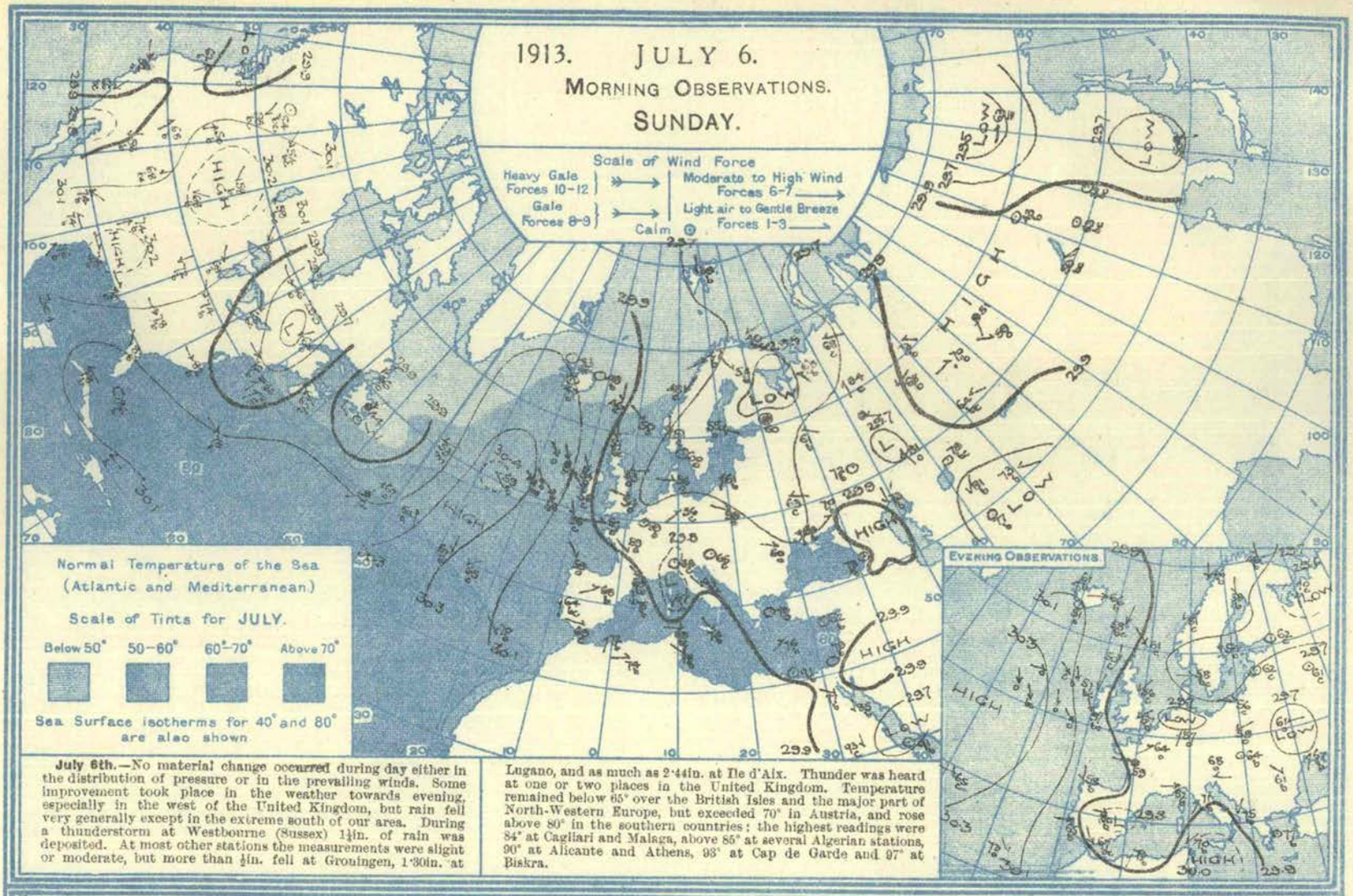
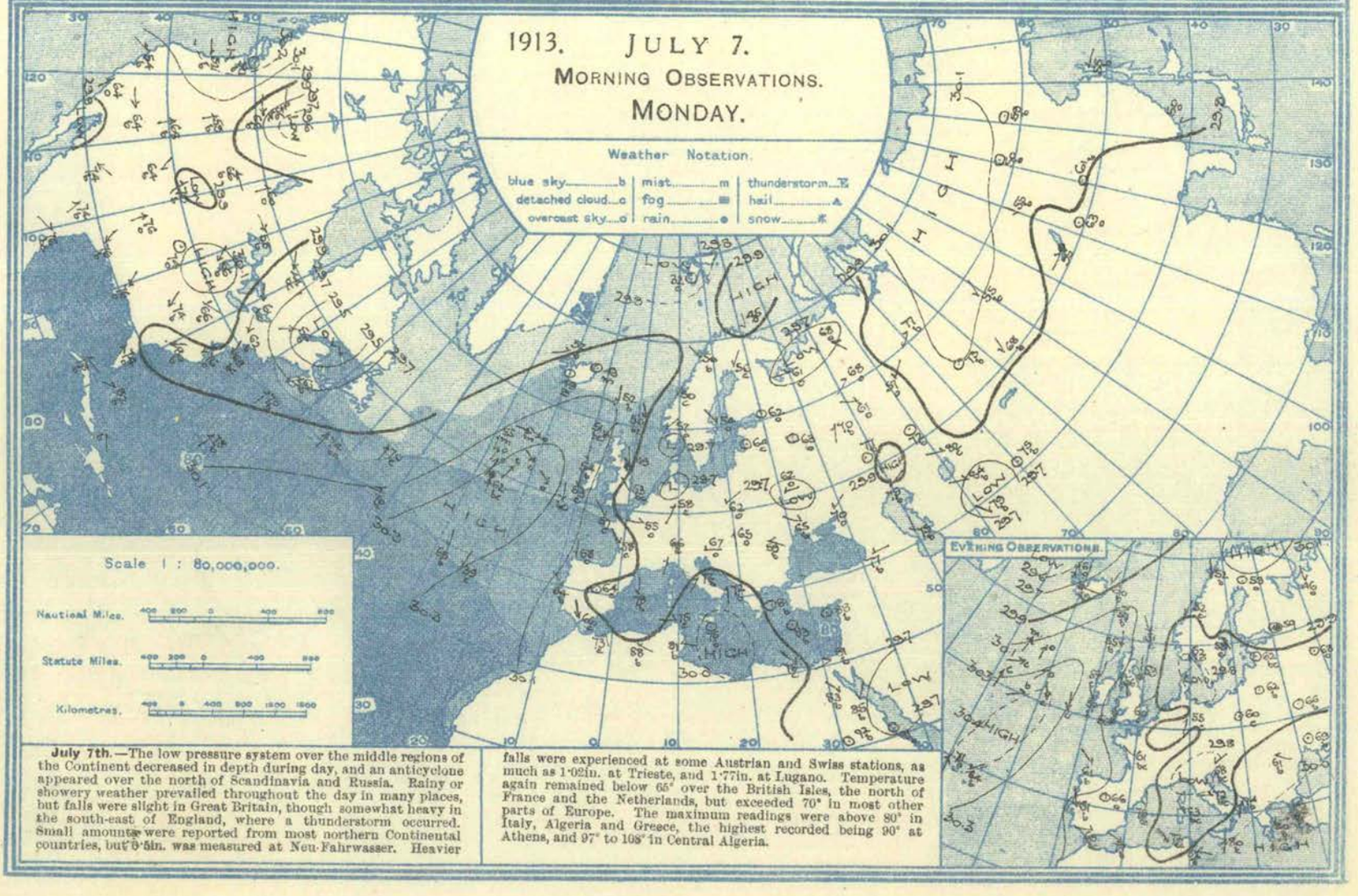
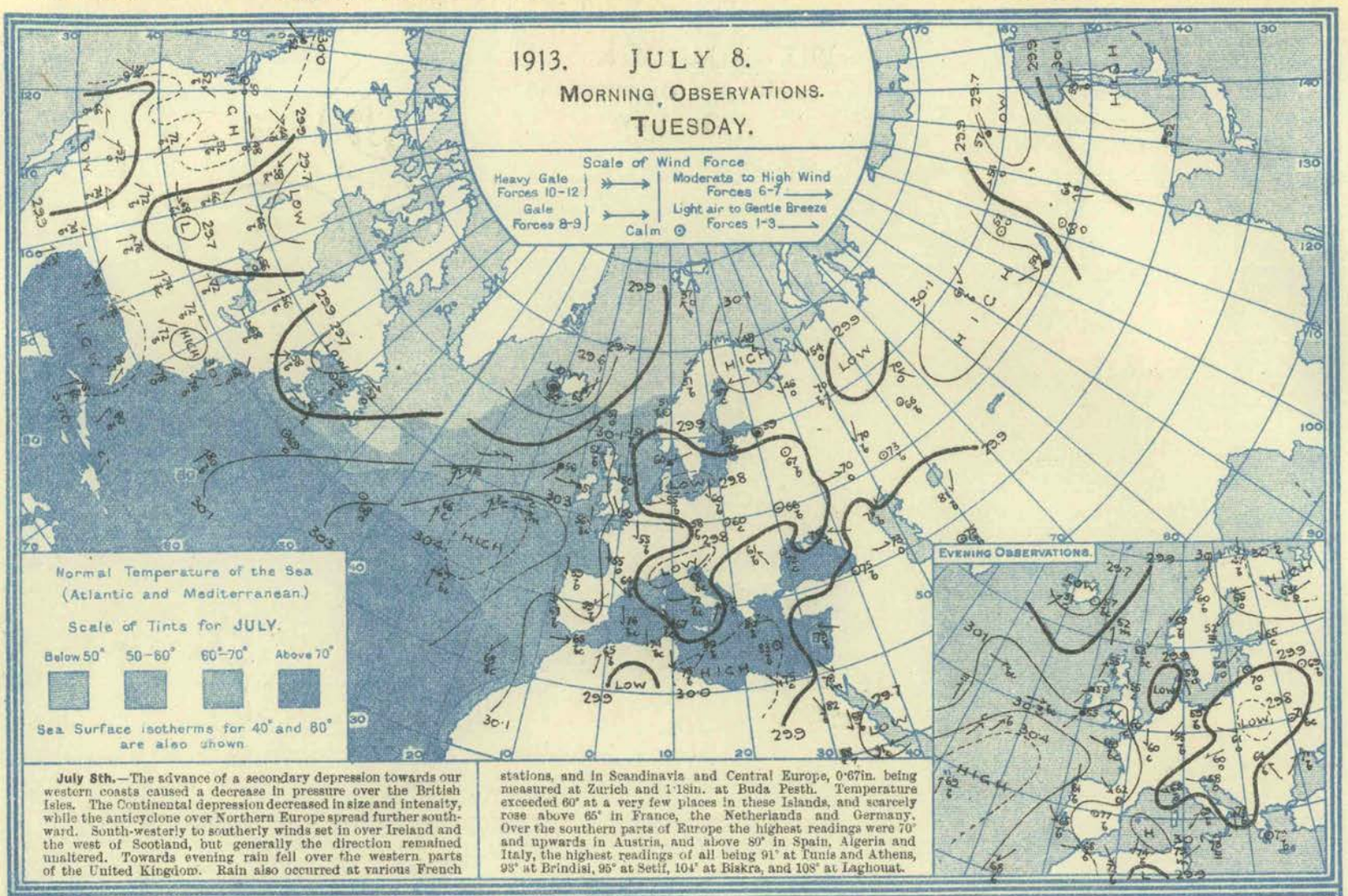


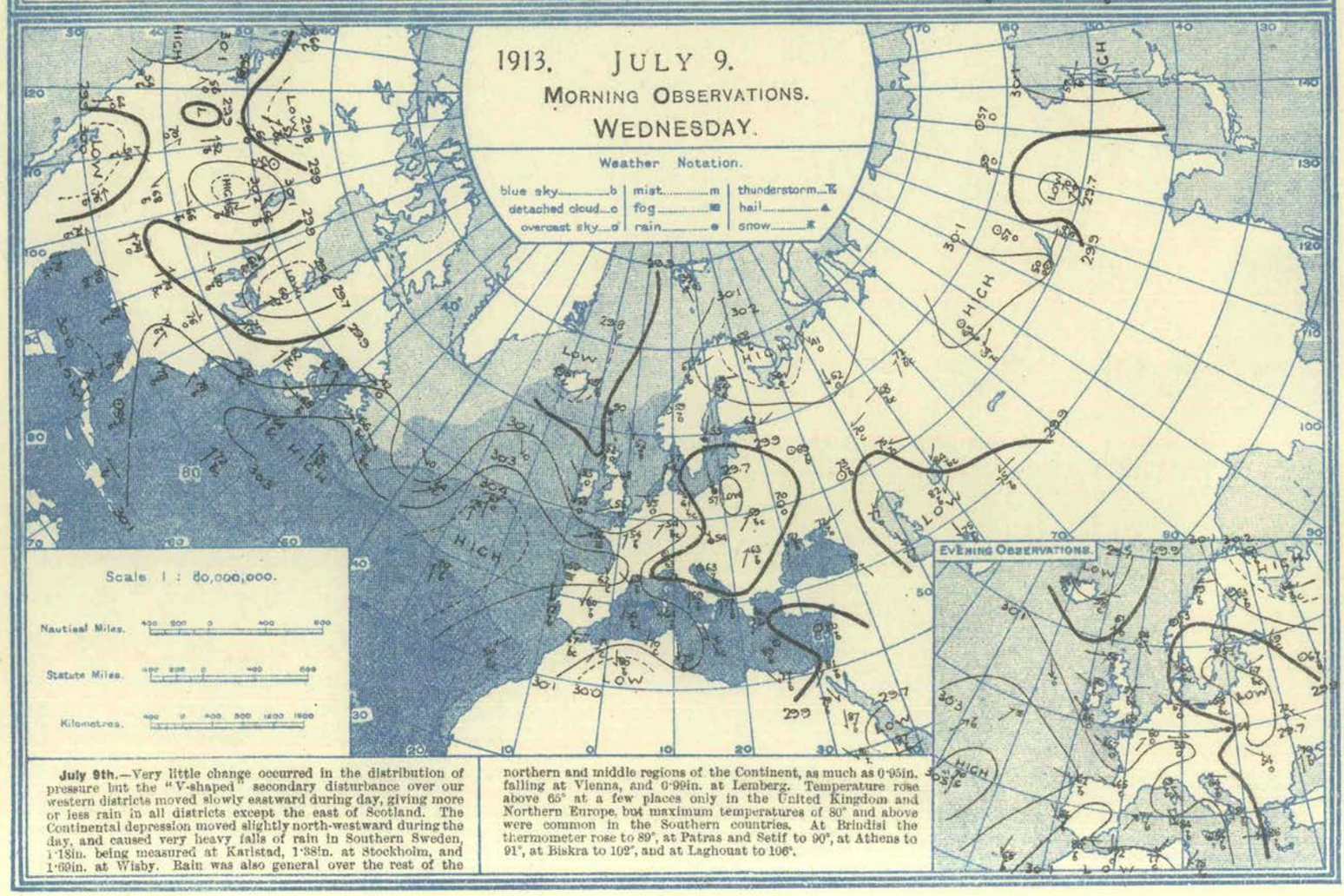
July 6th.—No material change occurred during day either in the distribution of pressure or in the prevailing winds. Some improvement took place in the weather towards evening, especially in the west of the United Kingdom, but rain fell very generally except in the extreme south of our area. During a thunderstorm at Westbourne (Sussex) 1¼in. of rain was deposited. At most other stations the measurements were slight or moderate, but more than ½in. fell at Grouingen, 1·30in. at Lugano, and as much as 2·44in. at Ile d'Aix. Thunder was heard at one or two places in the United Kingdom. Temperature remained below 65° over the British Isles and the major part of North-Western Europe, but exceeded 70° in Austria, and rose above 80° in the southern countries: the highest readings were 84° at Cagliari and Malaga, above 85° at several Algerian stations, 90° at Alicante and Athens, 93° at Cap de Garde and 97° at Biskra.



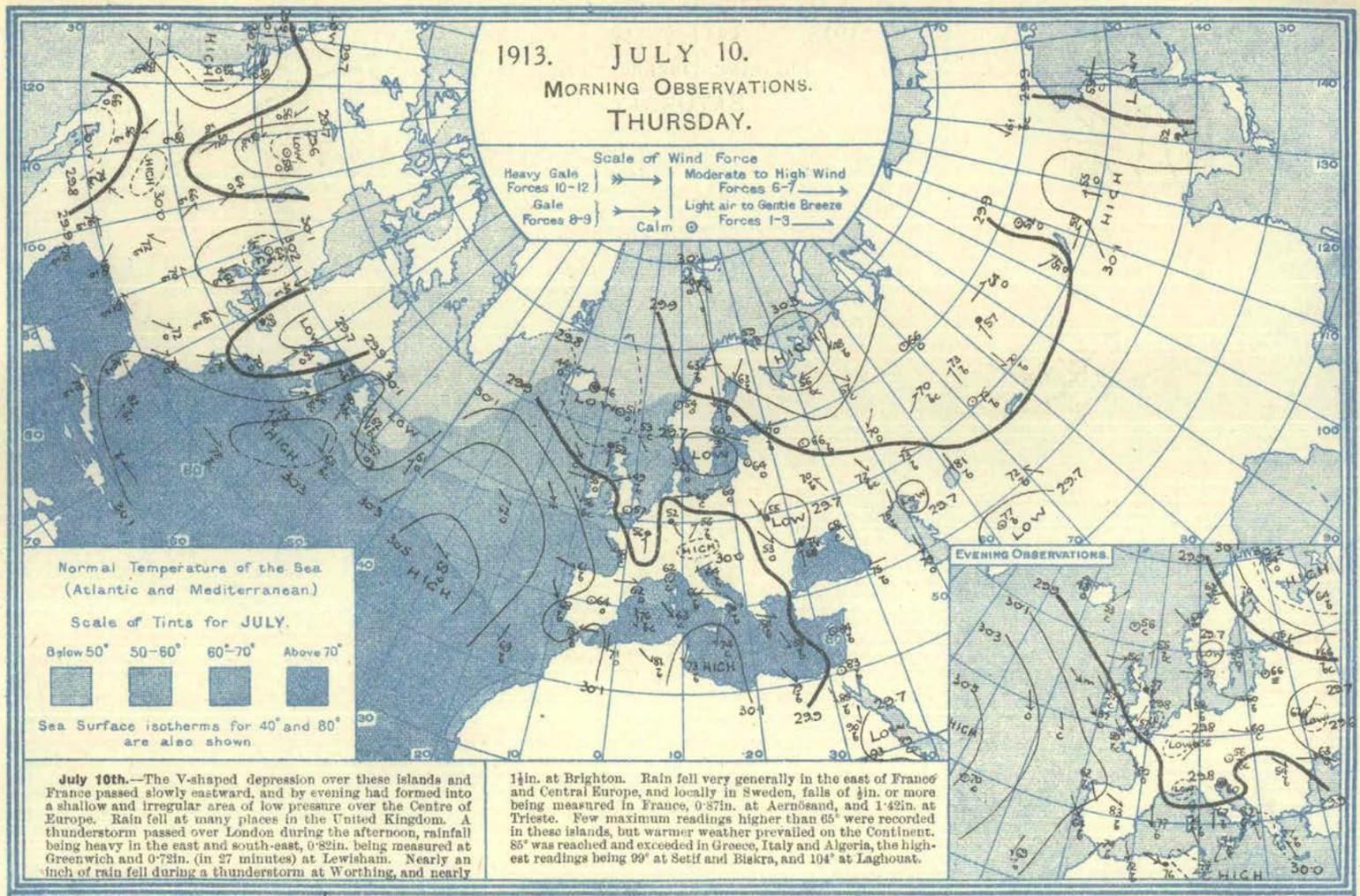
July 7th.—The low pressure system over the middle regions of the Continent decreased in depth during day, and an anticyclone appeared over the north of Scandinavia and Russia. Rainy or showery weather prevailed throughout the day in many places, but falls were slight in Great Britain, though somewhat heavy in the south-east of England, where a thunderstorm occurred. Small amounts were reported from most northern Continental countries, but 0·5in. was measured at Neu-Fahrwasser. Heavier falls were experienced at some Austrian and Swiss stations, as much as 1·02in. at Trieste, and 1·77in. at Lugano. Temperature again remained below 65° over the British Isles, the north of France and the Netherlands, but exceeded 70° in most other parts of Europe. The maximum readings were above 80° in Italy, Algeria and Greece, the highest recorded being 90° at Athens, and 97° to 108° in Central Algeria.



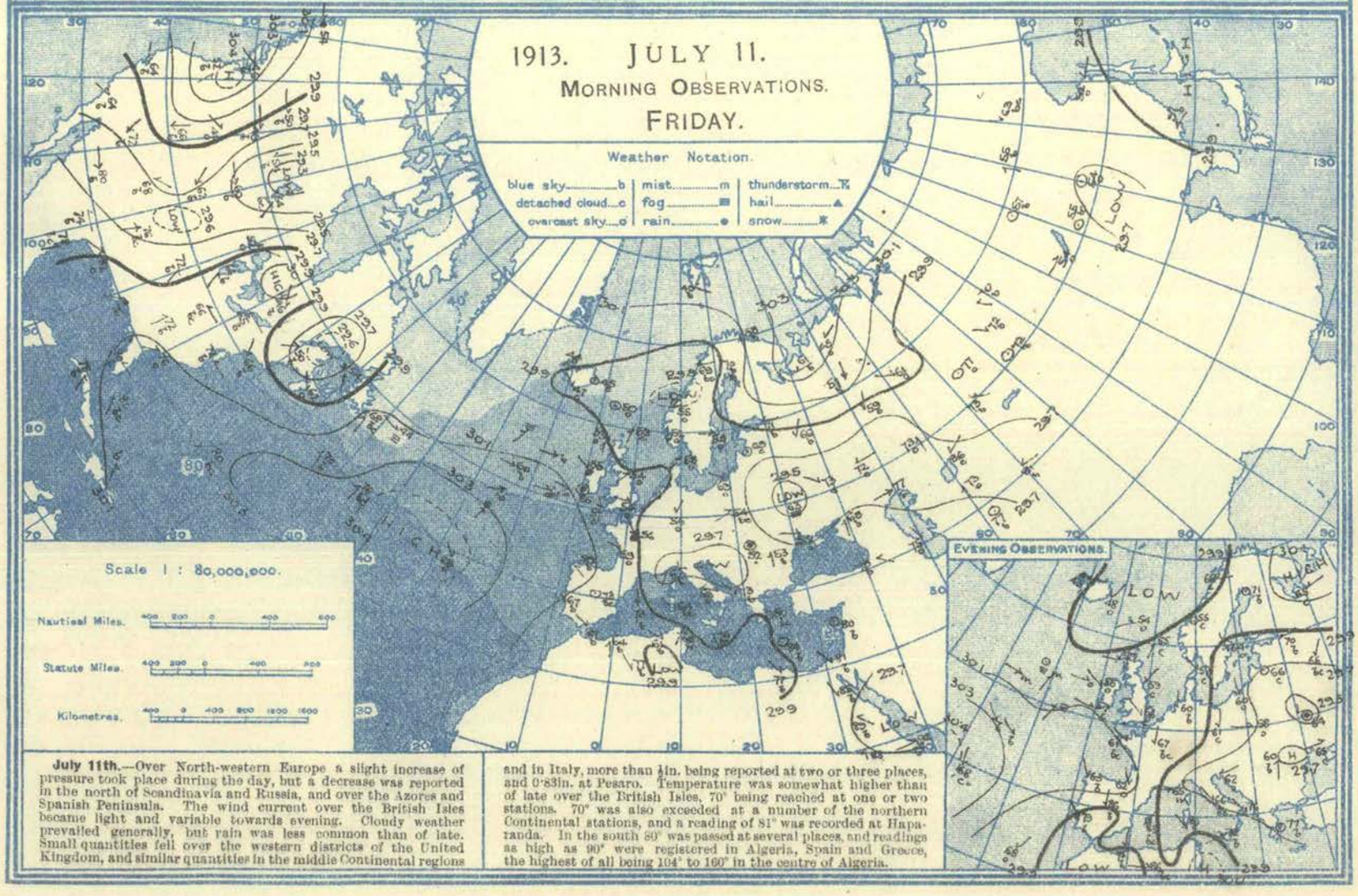
July 8th.—The advance of a secondary depression towards our western coasts caused a decrease in pressure over the British Isles. The Continental depression decreased in size and intensity, while the anticyclone over Northern Europe spread further southward. South-westerly to southerly winds set in over Ireland and the west of Scotland, but generally the direction remained unaltered. Towards evening rain fell over the western parts of the United Kingdom. Rain also occurred at various French stations, and in Scandinavia and Central Europe, 0·67in. being measured at Zurich and 1·18in. at Buda Pesth. Temperature exceeded 60° at a very few places in these Islands, and scarcely rose above 65° in France, the Netherlands and Germany. Over the southern parts of Europe the highest readings were 70° and upwards in Austria, and above 80° in Spain, Algeria and Italy, the highest readings of all being 91° at Tunis and Athens, 93° at Brindisi, 95° at Setif, 104° at Biskra, and 108° at Laghouat.



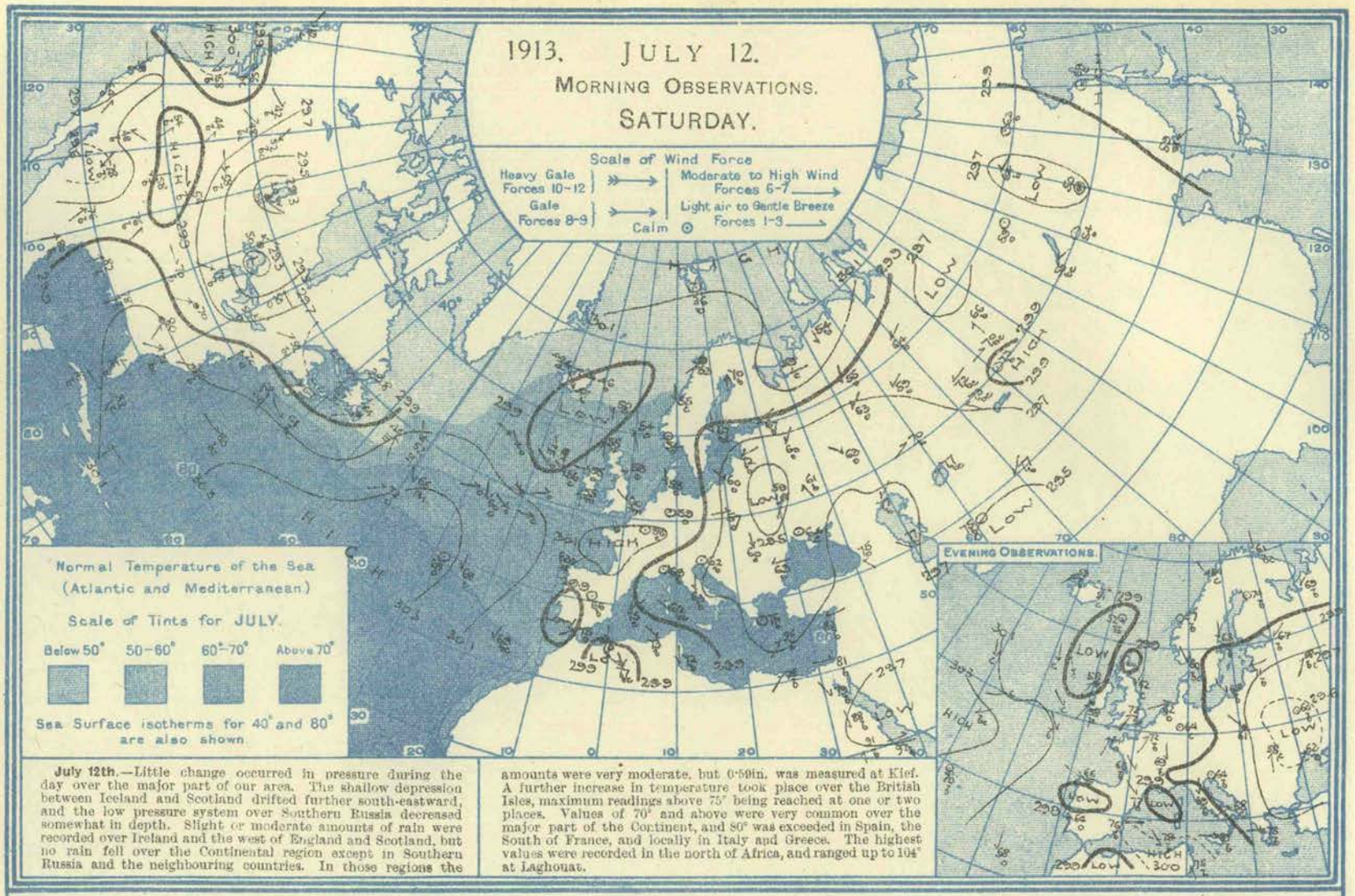
July 9th.—Very little change occurred in the distribution of pressure but the "V-shaped" secondary disturbance over our western districts moved slowly eastward during day, giving more or less rain in all districts except the east of Scotland. The Continental depression moved slightly north-westward during the day, and caused very heavy falls of rain in Southern Sweden, 1·18in. being measured at Karlstad, 1·88in. at Stockholm, and 1·69in. at Wisby. Rain was also general over the rest of the northern and middle regions of the Continent, as much as 0·95in. falling at Vienna, and 0·99in. at Lemberg. Temperature rose above 65° at a few places only in the United Kingdom and Northern Europe, but maximum temperatures of 80° and above were common in the Southern countries. At Brindisi the thermometer rose to 89°, at Patras and Setif to 90°, at Athens to 91°, at Biskra to 102°, and at Laghouat to 106°.



July 10th.—The V-shaped depression over these islands and France passed slowly eastward, and by evening had formed into a shallow and irregular area of low pressure over the Centre of Europe. Rain fell at many places in the United Kingdom. A thunderstorm passed over London during the afternoon, rainfall being heavy in the east and south-east, 0·82in. being measured at Greenwich and 0·72in. (in 27 minutes) at Lewisham. Nearly an inch of rain fell during a thunderstorm at Worthing, and nearly 1½in. at Brighton. Rain fell very generally in the east of France and Central Europe, and locally in Sweden, falls of ½in. or more being measured in France, 0·87in. at Aernösand, and 1·42in. at Trieste. Few maximum readings higher than 65° were recorded in these islands, but warmer weather prevailed on the Continent. 85° was reached and exceeded in Greece, Italy and Algeria, the highest readings being 99° at Setif and Biskra, and 104° at Laghouat.

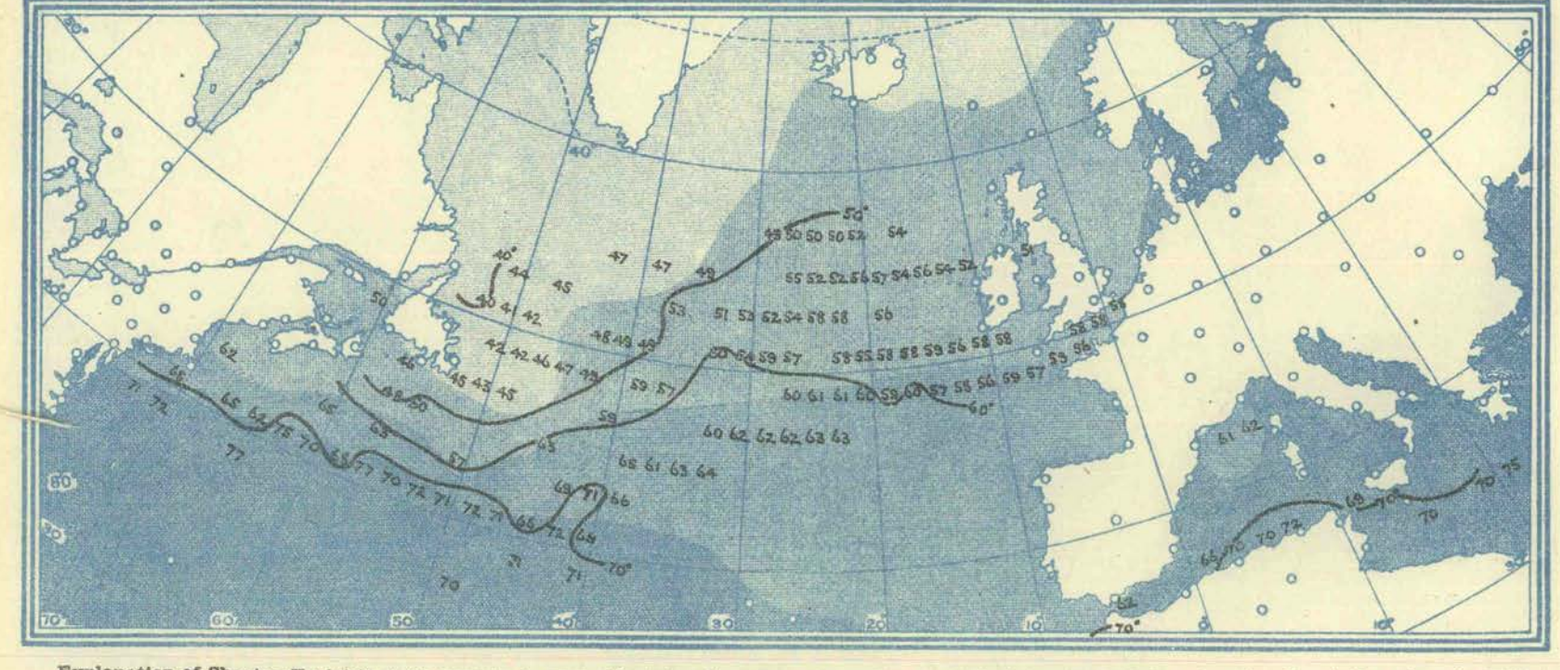


July 11th.—Over North-western Europe a slight increase of pressure took place during the day, but a decrease was reported in the north of Scandinavia and Russia, and over the Azores and Spanish Peninsula. The wind current over the British Isles became light and variable towards evening. Cloudy weather prevailed generally, but rain was less common than of late. Small quantities fell over the western districts of the United Kingdom, and similar quantities in the middle Continental regions and in Italy, more than ½in. being reported at two or three places, and 0·83in. at Pesaro. Temperature was somewhat higher than of late over the British Isles, 70° being reached at one or two stations. 70° was also exceeded at a number of the northern Continental stations, and a reading of 81° was recorded at Haparanda. In the south 80° was passed at several places, and readings as high as 90° were registered in Algeria, Spain and Greece, the highest of all being 104° to 160° in the centre of Algeria.



July 12th.—Little change occurred in pressure during the day over the major part of our area. The shallow depression between Iceland and Scotland drifted further south-eastward, and the low pressure system over Southern Russia decreased somewhat in depth. Slight or moderate amounts of rain were recorded over Ireland and the west of England and Scotland, but no rain fell over the Continental region except in Southern Russia and the neighbouring countries. In those regions the amounts were very moderate, but 0·59in. was measured at Kief. A further increase in temperature took place over the British Isles, maximum readings above 75° being reached at one or two places. Values of 70° and above were very common over the major part of the Continent, and 80° was exceeded in Spain, the South of France, and locally in Italy and Greece. The highest values were recorded in the north of Africa, and ranged up to 104° at Laghouat.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 12TH JULY, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain and in the Azores. These times refer to Greenwich Mean Time.

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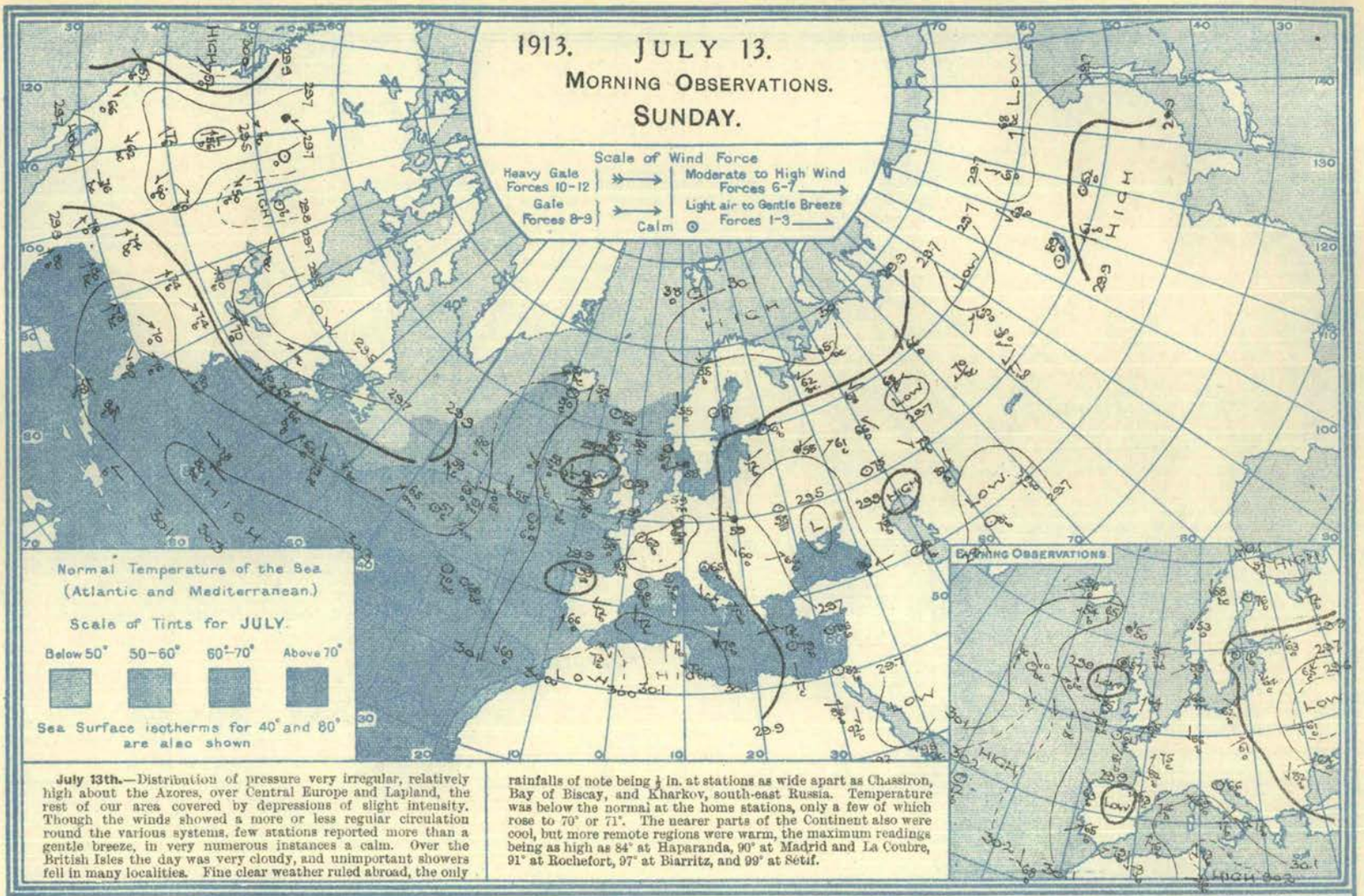
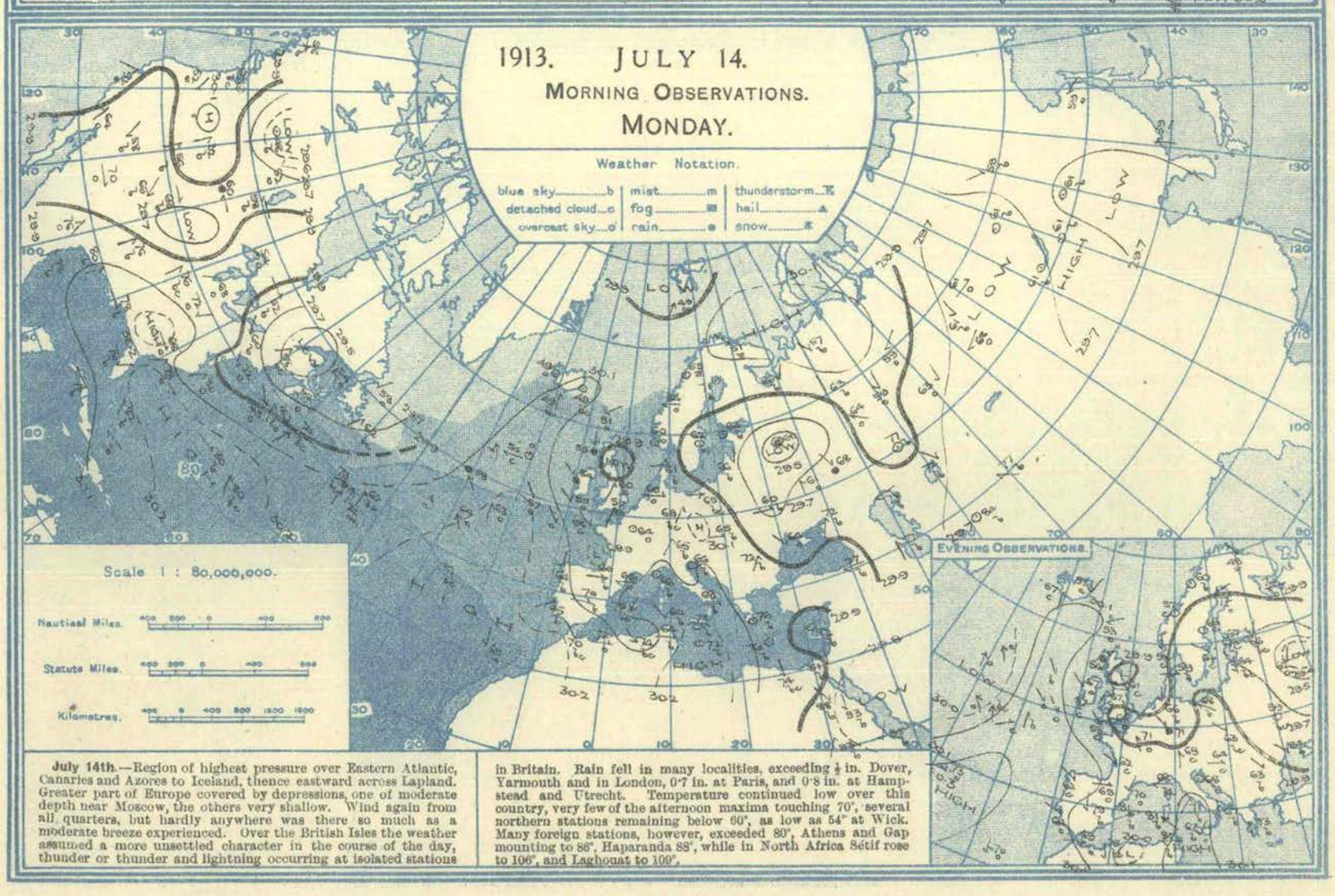
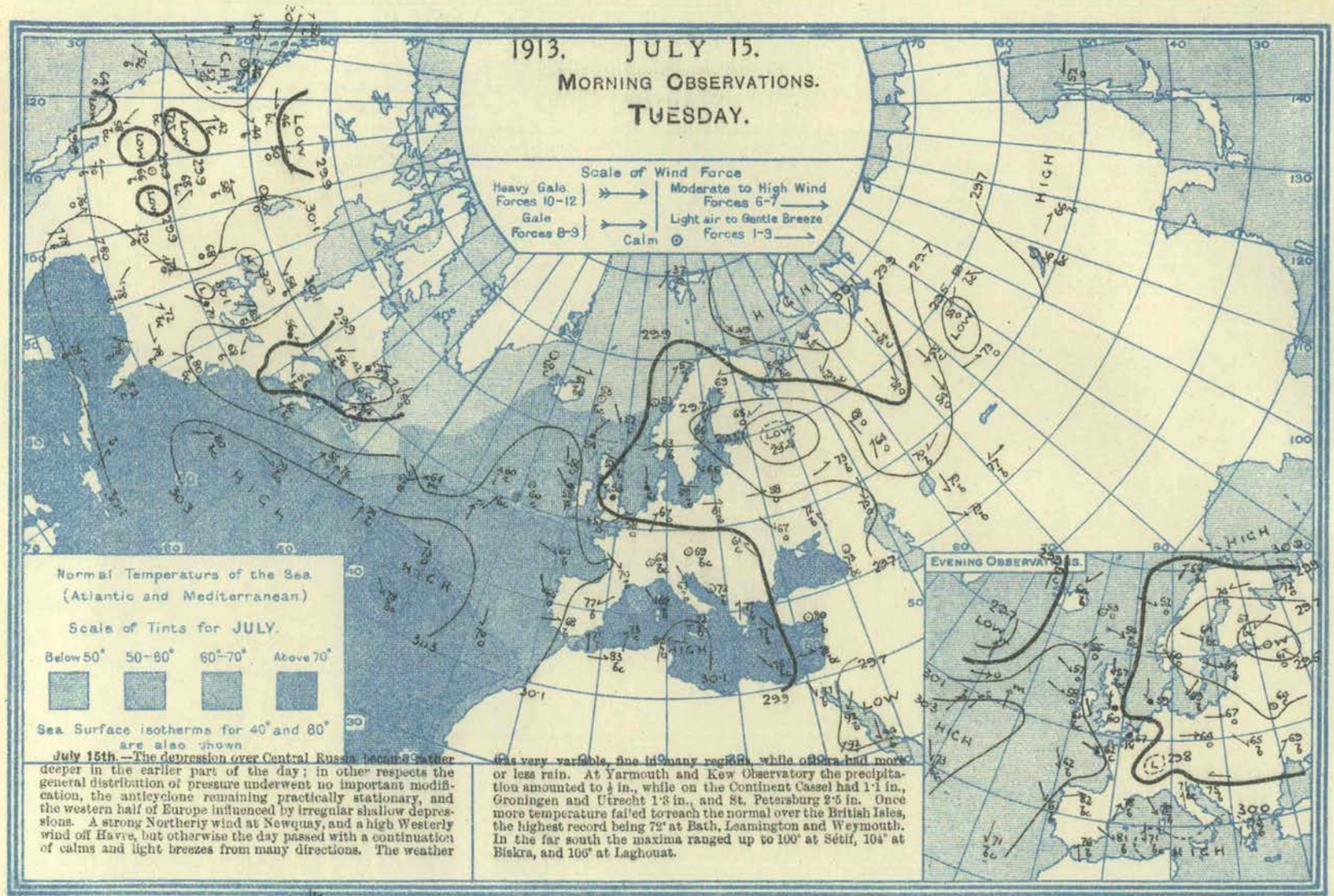
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40° and 80° are shown by blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



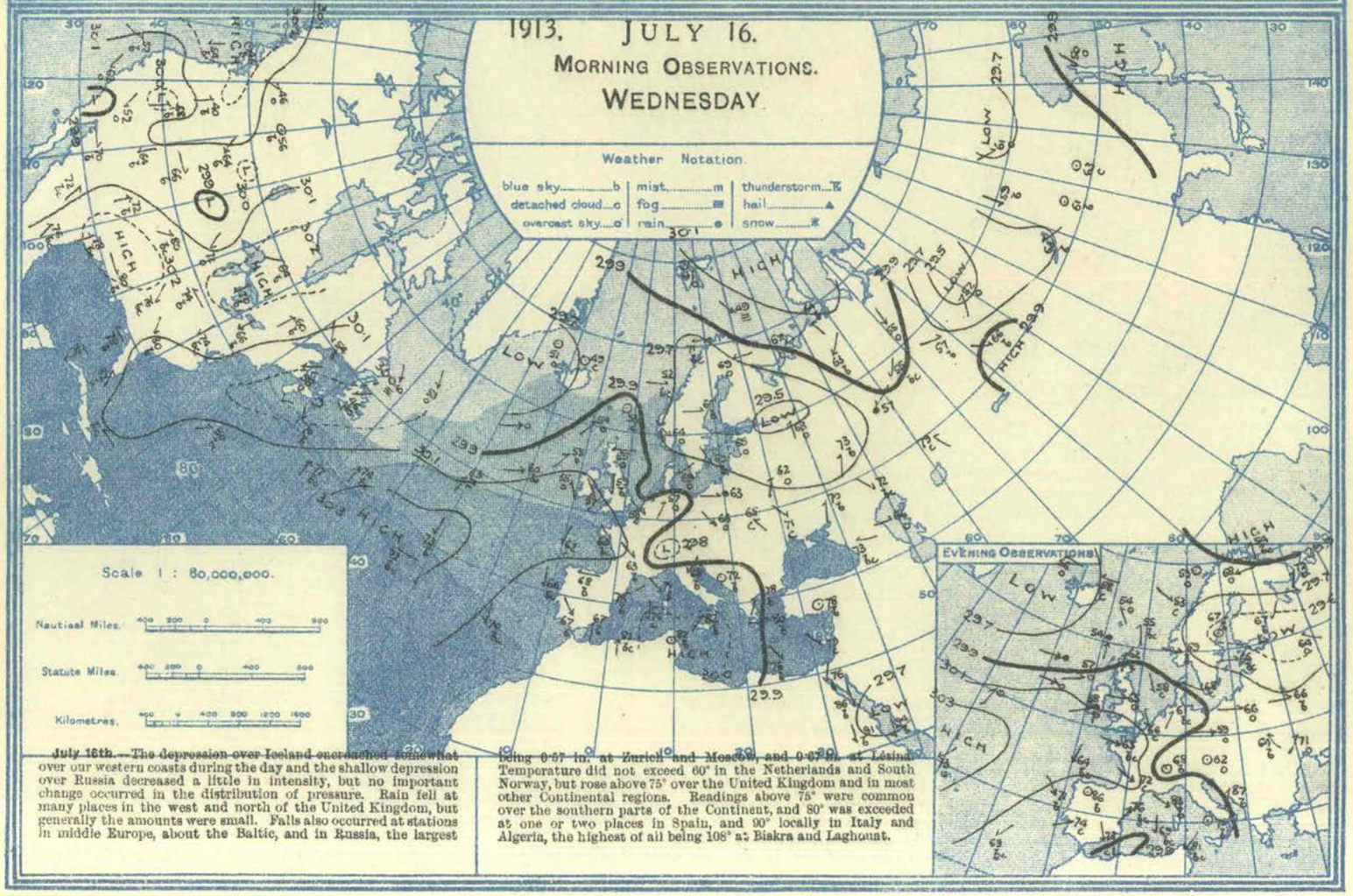
July 13th.—Distribution of pressure very irregular, relatively high about the Azores, over Central Europe and Lapland, the rest of our area covered by depressions of slight intensity. Though the winds showed a more or less regular circulation round the various systems, few stations reported more than a gentle breeze, in very numerous instances a calm. Over the British Isles the day was very cloudy, and unimportant showers fell in many localities. Fine clear weather ruled abroad, the only rainfalls of note being ½ in. at stations as wide apart as Chassiron, Bay of Biscay, and Kharkov, south-east Russia. Temperature was below the normal at the home stations, only a few of which rose to 70° or 71°. The nearer parts of the Continent also were cool, but more remote regions were warm, the maximum readings being as high as 84° at Haparanda, 90° at Madrid and La Coubre, 91° at Rochefort, 97° at Biarritz, and 99° at Sétif.



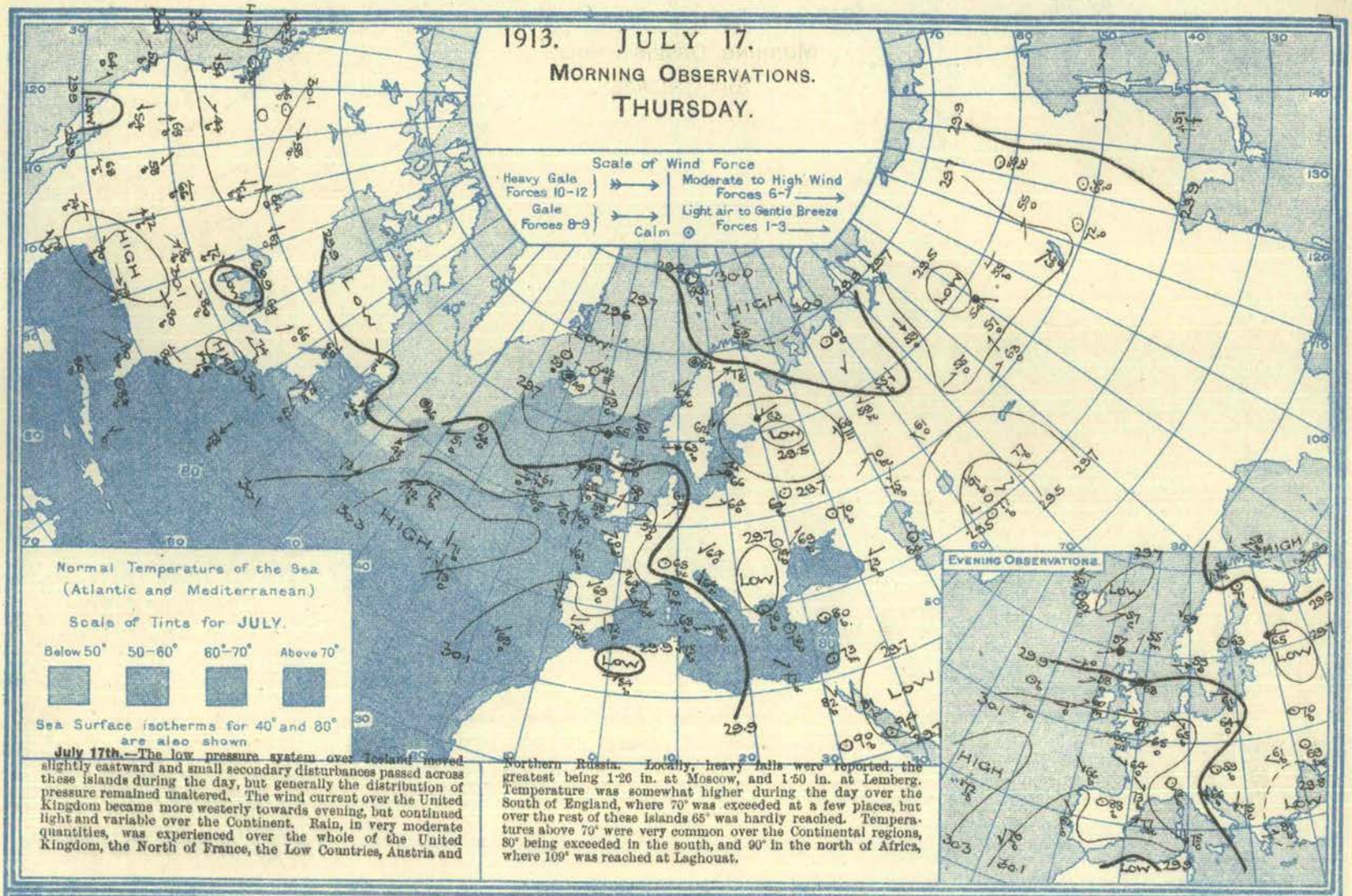
July 14th.—Region of highest pressure over Eastern Atlantic, Canaries and Azores to Iceland, thence eastward across Lapland. Greater part of Europe covered by depressions, one of moderate depth near Moscow, the others very shallow. Wind again from all quarters, but hardly anywhere was there so much as a moderate breeze experienced. Over the British Isles the weather assumed a more unsettled character in the course of the day, thunder or thunder and lightning occurring at isolated stations in Britain. Rain fell in many localities, exceeding ½ in. Dover, Yarmouth and in London, 0·7 in. at Paris, and 0·8 in. at Hampstead and Utrecht. Temperature continued low over this country, very few of the afternoon maxima touching 70°, several northern stations remaining below 60°, as low as 54° at Wick. Many foreign stations, however, exceeded 80°, Athens and Gap mounting to 86°, Haparanda 88°, while in North Africa Sétif rose to 106°, and Laghouat to 109°.



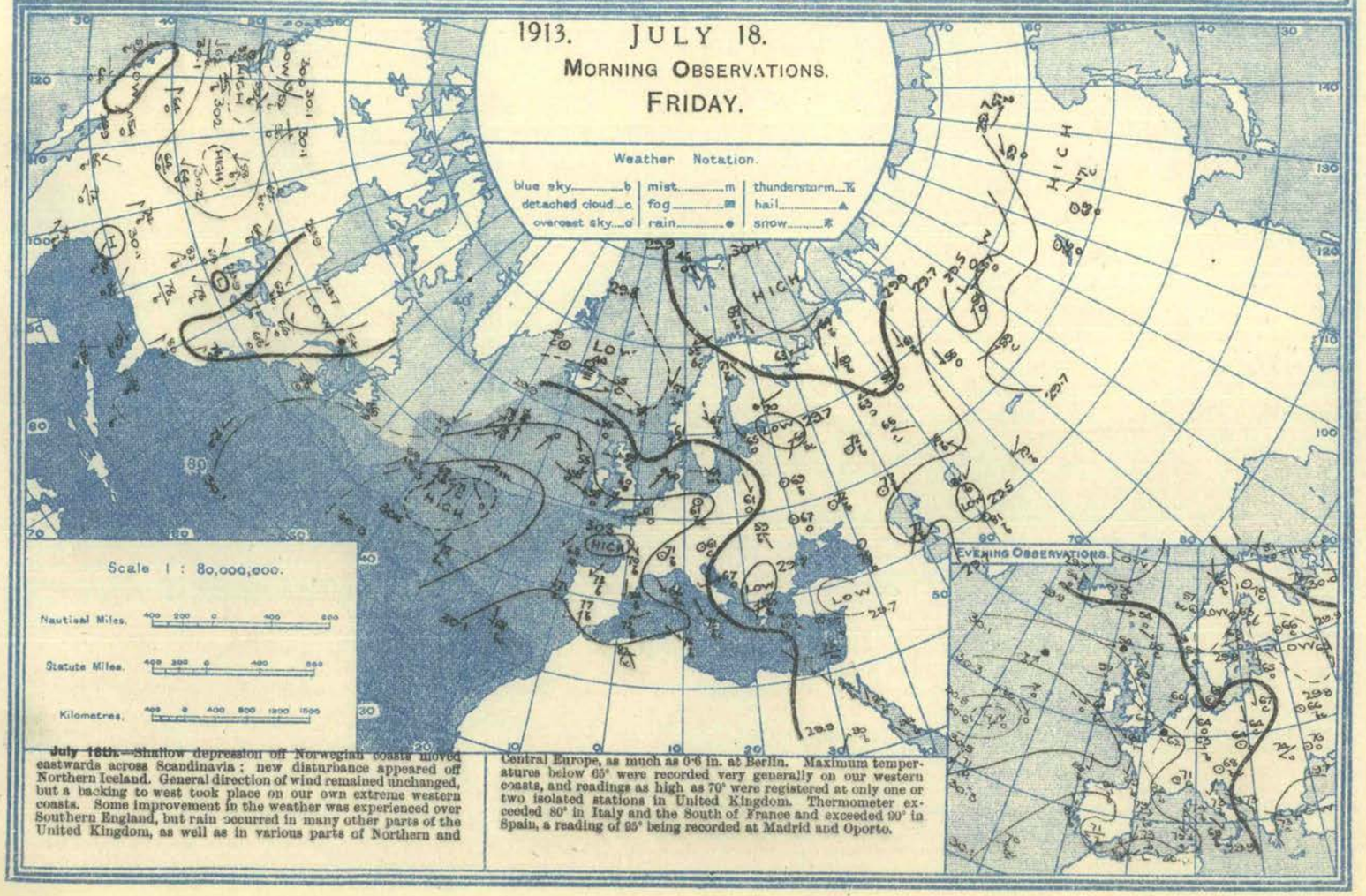
July 15th.—The depression over Central Russia became rather deeper in the earlier part of the day; in other respects the general distribution of pressure underwent no important modification, the anticyclone remaining practically stationary, and the western half of Europe influenced by irregular shallow depressions. A strong Northerly wind at Newquay, and a high Westerly wind off Havre, but otherwise the day passed with a continuation of calms and light breezes from many directions. The weather was very variable, fine in many regions, while others had more or less rain. At Yarmouth and Kew Observatory the precipitation amounted to ½ in., while on the Continent Cassel had 1·1 in., Groningen and Utrecht 1·3 in., and St. Petersburg 2·5 in. Once more temperature failed to reach the normal over the British Isles, the highest record being 72° at Bath, Leamington and Weymouth. In the far south the maxima ranged up to 100° at Sétif, 104° at Biskra, and 106° at Laghouat.



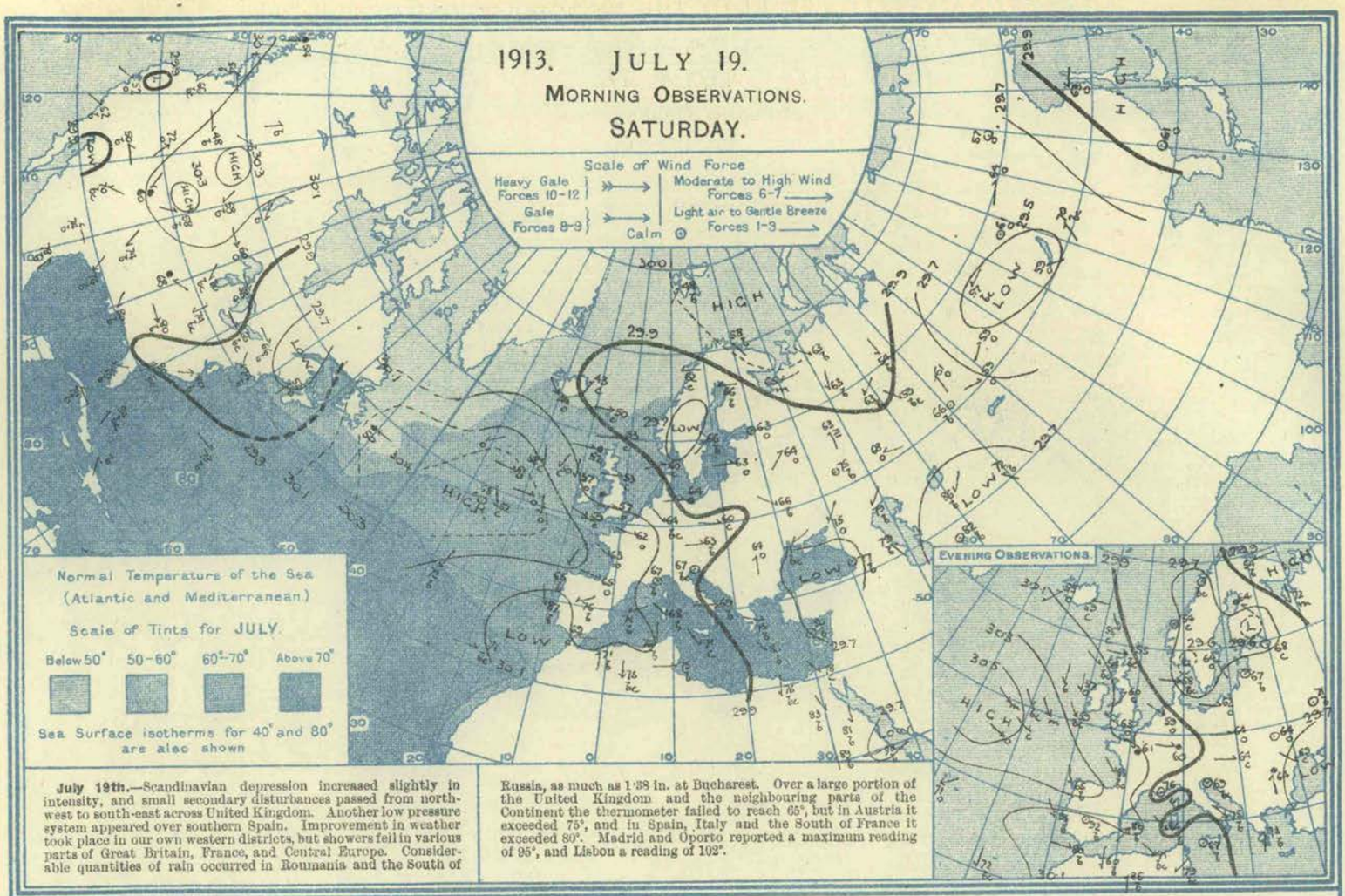
July 16th.—The depression over Iceland encroached somewhat over our western coasts during the day and the shallow depression over Russia decreased a little in intensity, but no important change occurred in the distribution of pressure. Rain fell at many places in the west and north of the United Kingdom, but generally the amounts were small. Falls also occurred at stations in middle Europe, about the Baltic, and in Russia, the largest being 0·67 in. at Zurich and Moscow, and 0·87 in. at Lésina. Temperature did not exceed 60° in the Netherlands and South Norway, but rose above 75° over the United Kingdom and in most other Continental regions. Readings above 75° were common over the southern parts of the Continent, and 80° was exceeded at one or two places in Spain, and 90° locally in Italy and Algeria, the highest of all being 108° at Biskra and Laghouat.



July 17th.—The low pressure system over Iceland moved slightly eastward and small secondary disturbances passed across these islands during the day, but generally the distribution of pressure remained unaltered. The wind current over the United Kingdom became more westerly towards evening, but continued light and variable over the Continent. Rain, in very moderate quantities, was experienced over the whole of the United Kingdom, the North of France, the Low Countries, Austria and Northern Russia. Locally, heavy falls were reported, the greatest being 1·26 in. at Moscow, and 1·50 in. at Lemberg. Temperature was somewhat higher during the day over the South of England, where 70° was exceeded at a few places, but over the rest of these islands 65° was hardly reached. Temperatures above 70° were very common over the Continental regions, 80° being exceeded in the south, and 90° in the north of Africa, where 109° was reached at Laghouat.

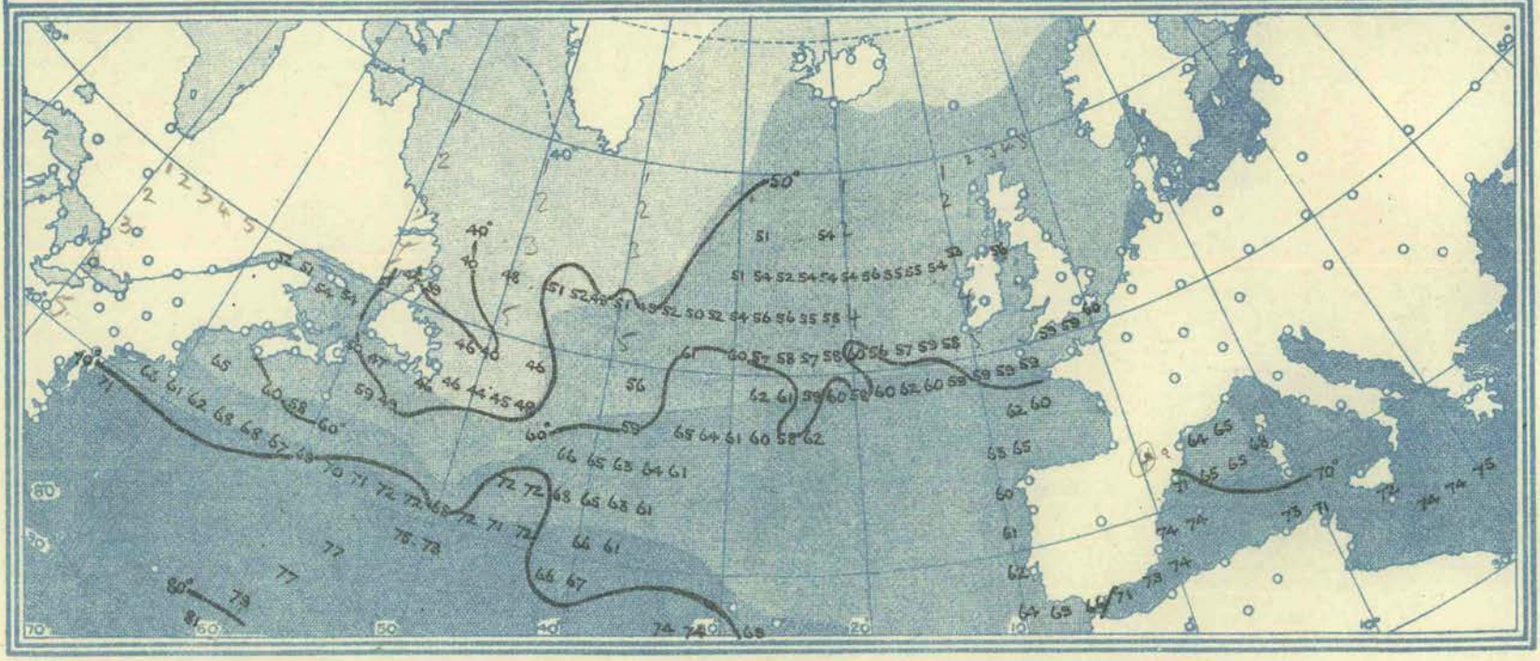


July 18th.—Shallow depression off Norwegian coasts moved eastwards across Scandinavia; new disturbance appeared off Northern Iceland. General direction of wind remained unchanged, but a backing to west took place on our own extreme western coasts. Some improvement in the weather was experienced over Southern England, but rain occurred in many other parts of the United Kingdom, as well as in various parts of Northern and Central Europe, as much as 0·6 in. at Berlin. Maximum temperatures below 65° were recorded very generally on our western coasts, and readings as high as 70° were registered at only one or two isolated stations in United Kingdom. Thermometer exceeded 80° in Italy and the South of France and exceeded 90° in Spain, a reading of 95° being recorded at Madrid and Oporto.



July 19th.—Scandinavian depression increased slightly in intensity, and small secondary disturbances passed from north-west to south-east across United Kingdom. Another low pressure system appeared over southern Spain. Improvement in weather took place in our own western districts, but showers fell in various parts of Great Britain, France, and Central Europe. Considerable quantities of rain occurred in Roumania and the South of Russia, as much as 1·38 in. at Bucharest. Over a large portion of the United Kingdom and the neighbouring parts of the Continent the thermometer failed to reach 65°, but in Austria it exceeded 75°, and in Spain, Italy and the South of France it exceeded 80°. Madrid and Oporto reported a maximum reading of 95°, and Lisbon a reading of 102°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 19TH. JULY, 1913.



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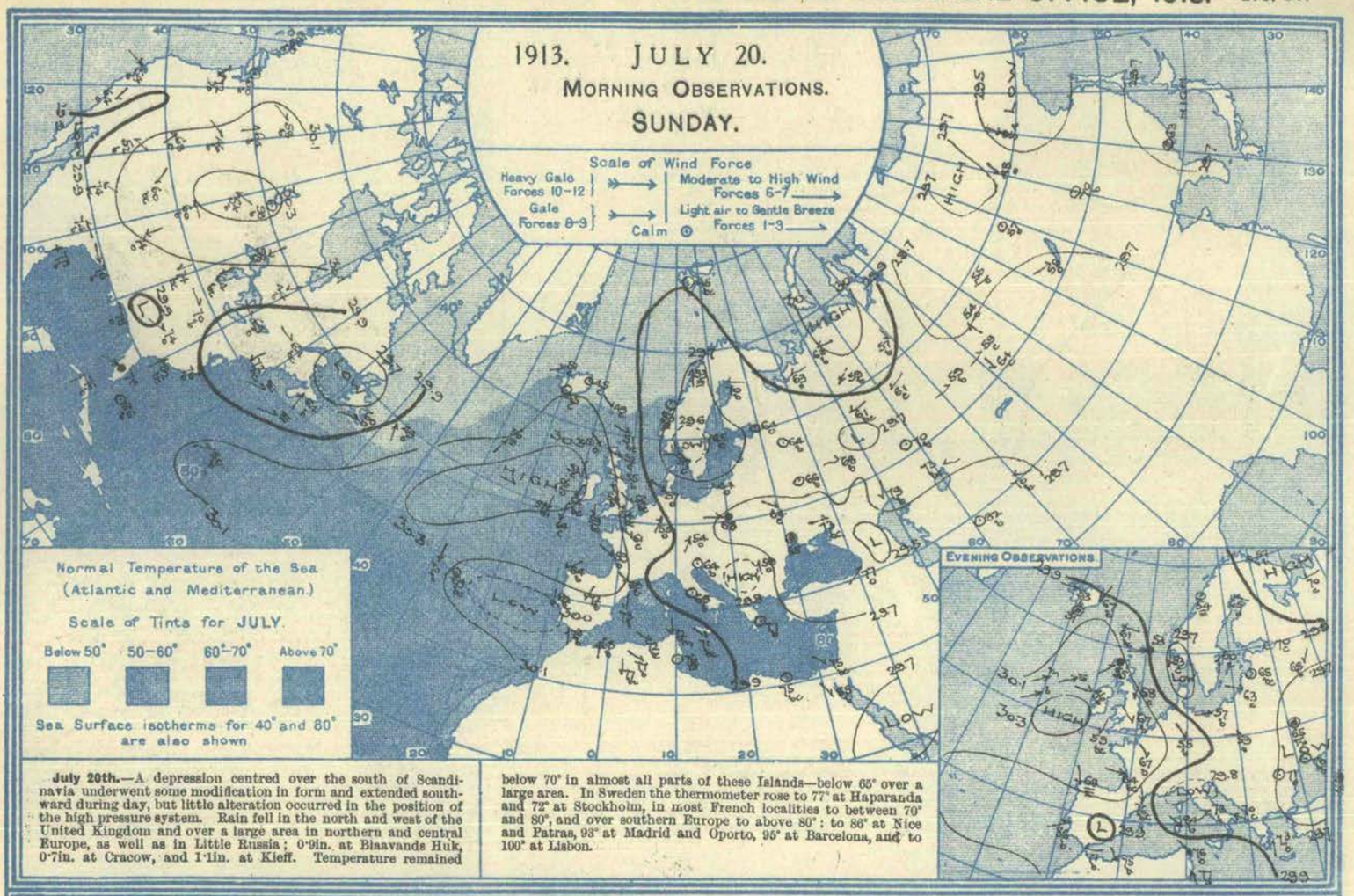
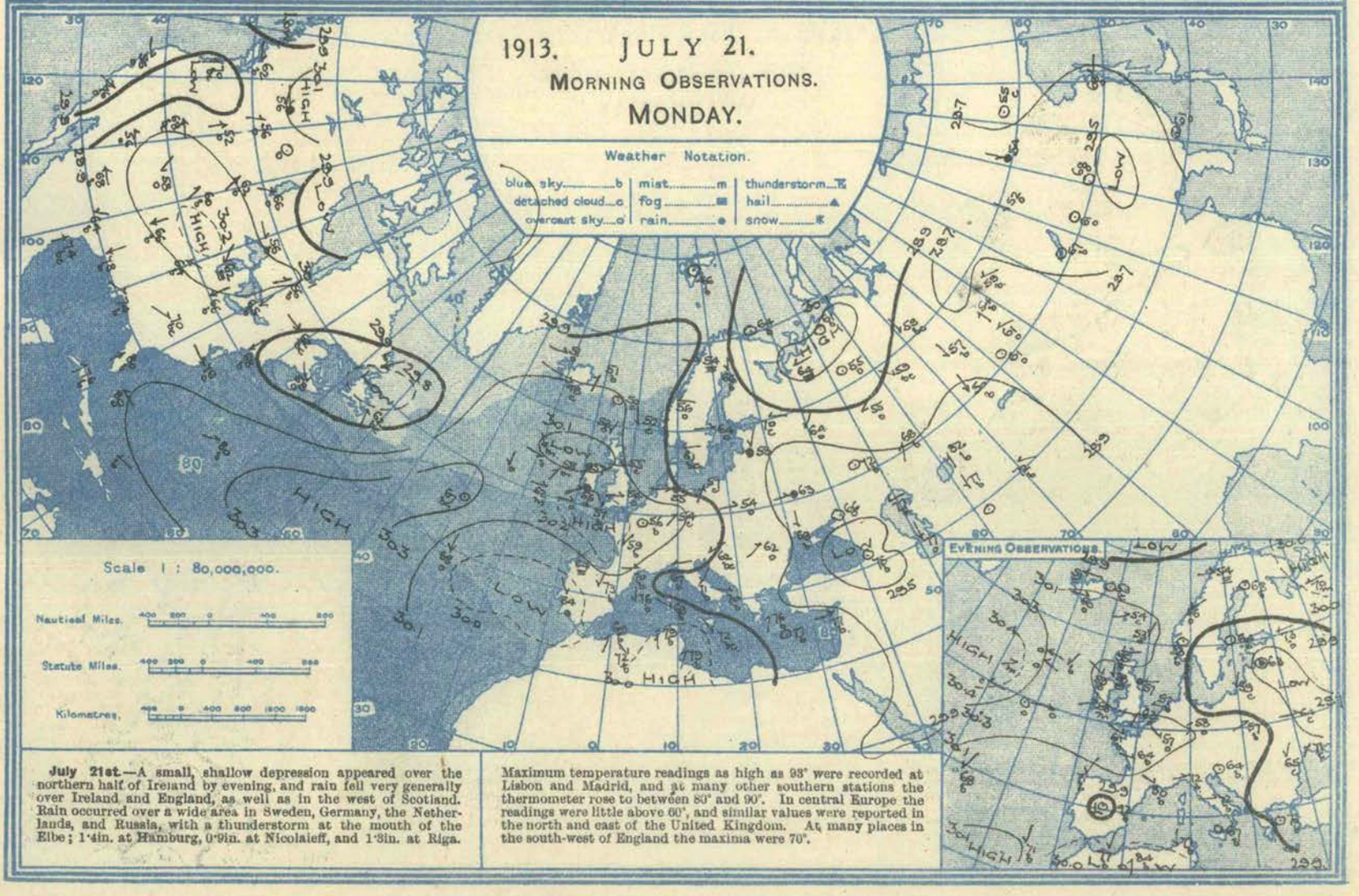
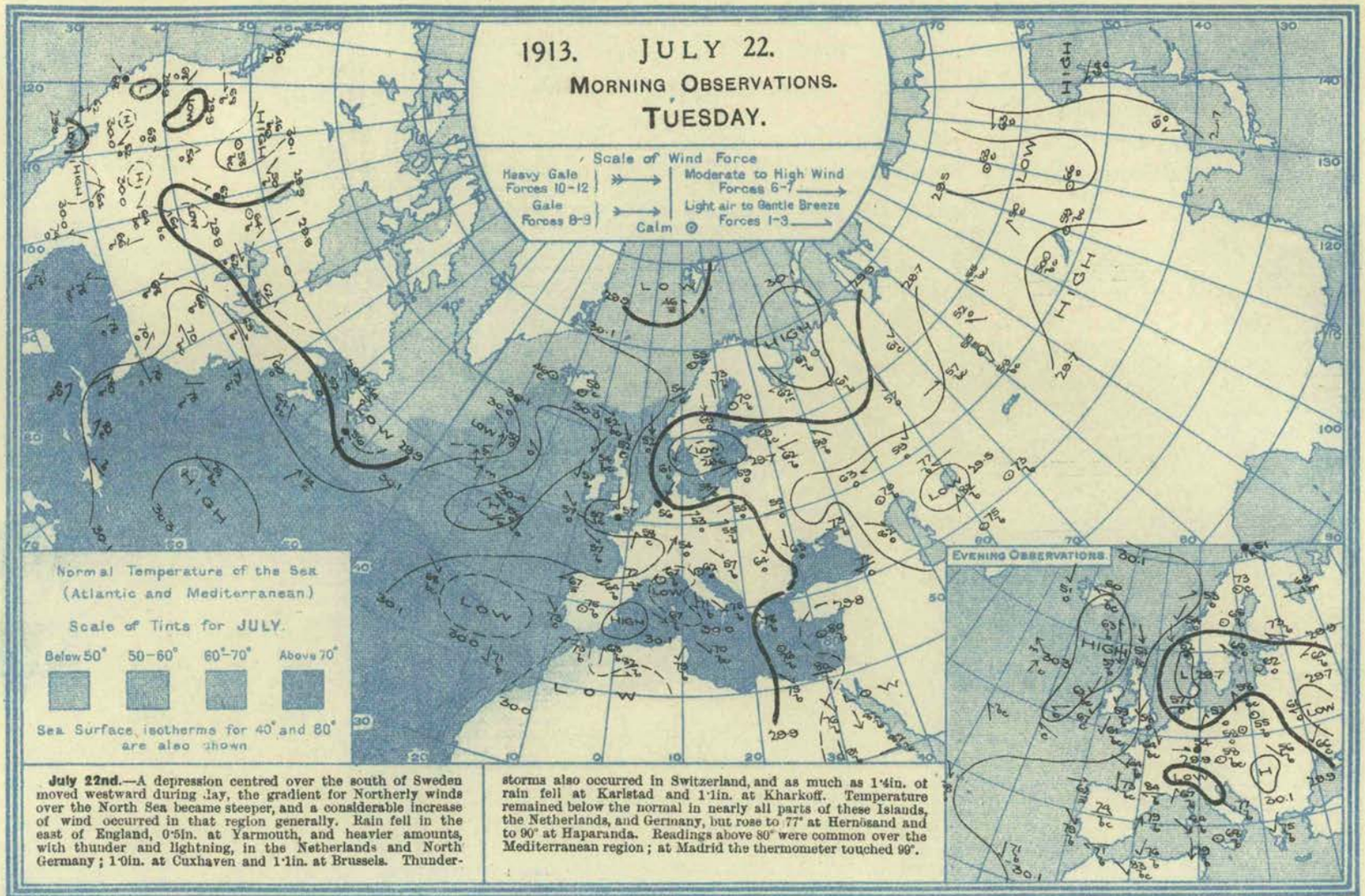


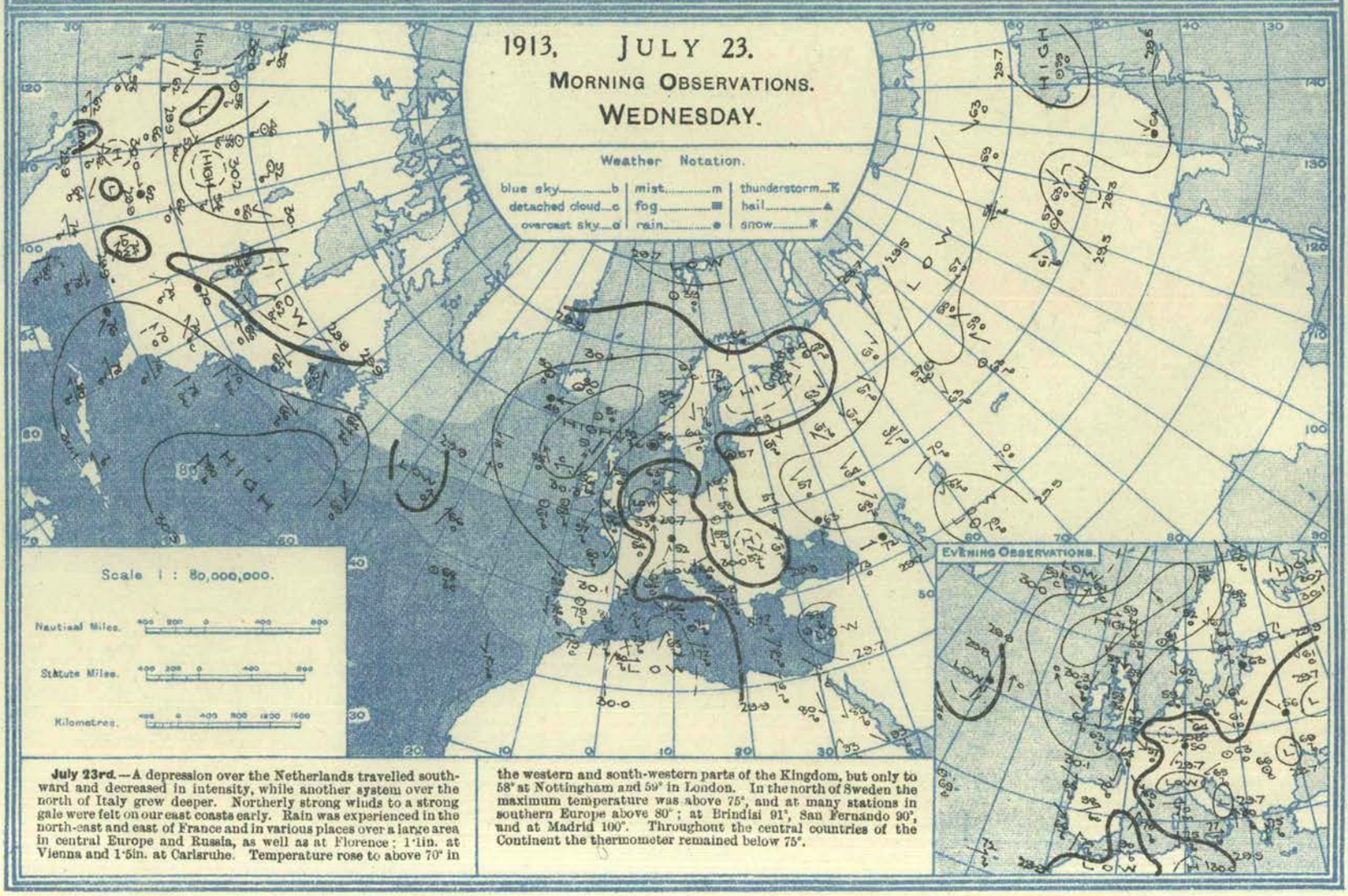
July 20th.—A depression centred over the south of Scandinavia underwent some modification in form and extended southward during day, but little alteration occurred in the position of the high pressure system. Rain fell in the north and west of the United Kingdom and over a large area in northern and central Europe, as well as in Little Russia; 0·9in. at Blaavands Huk, 0·7in. at Cracow, and 1·1in. at Kieff. Temperature remained below 70° in almost all parts of these Islands—below 65° over a large area. In Sweden the thermometer rose to 77° at Haparanda and 72° at Stockholm, in most French localities to between 70° and 80°, and over southern Europe to above 80°: to 86° at Nice and Patras, 93° at Madrid and Oporto, 95° at Barcelona, and to 100° at Lisbon.



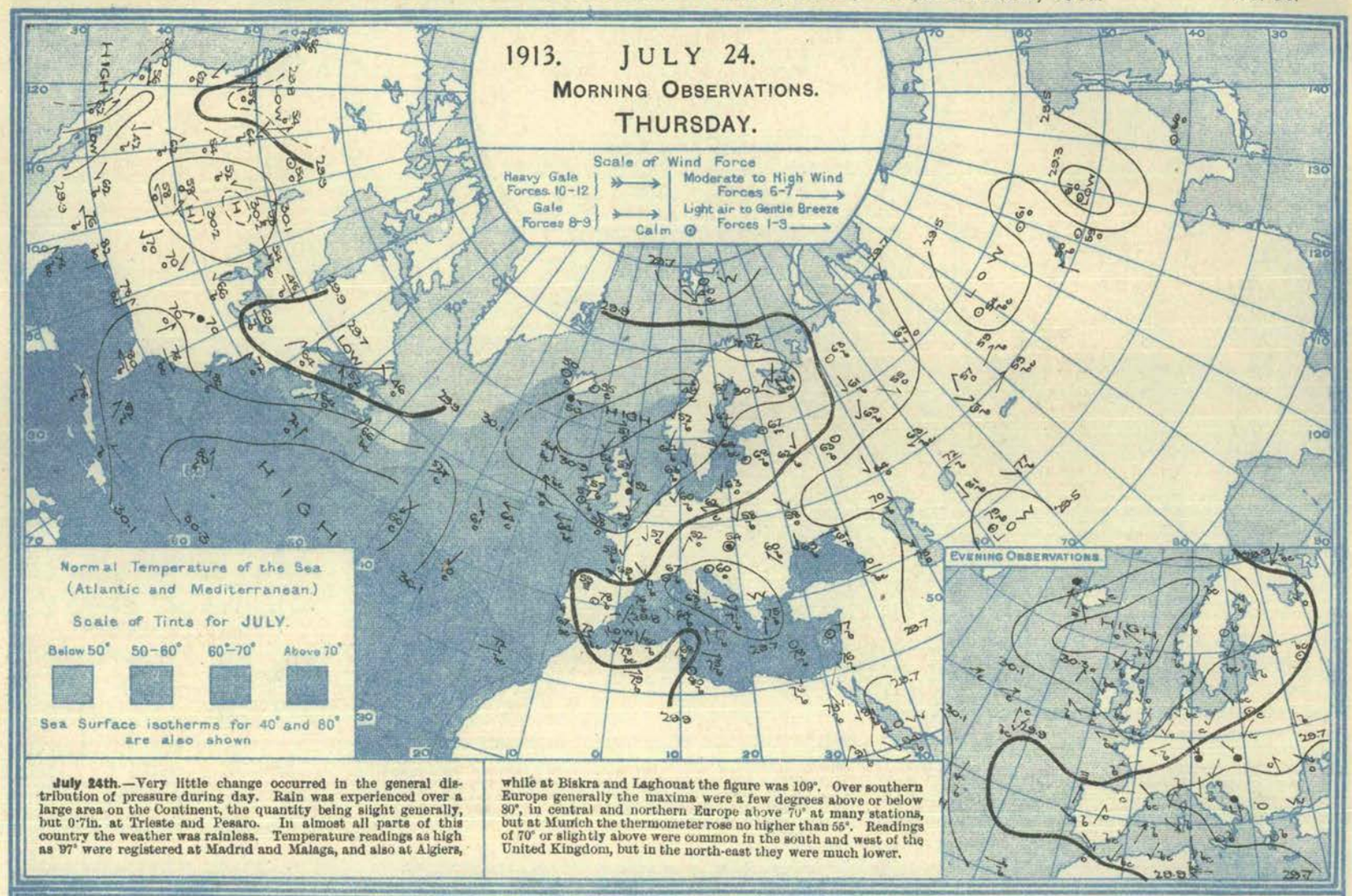
July 21st.—A small, shallow depression appeared over the northern half of Ireland by evening, and rain fell very generally over Ireland and England, as well as in the west of Scotland. Rain occurred over a wide area in Sweden, Germany, the Netherlands, and Russia, with a thunderstorm at the mouth of the Elbe; 1·4in. at Hamburg, 0·9in. at Nicolaieff, and 1·3in. at Riga. Maximum temperature readings as high as 93° were recorded at Lisbon and Madrid, and at many other southern stations the thermometer rose to between 80° and 90°. In central Europe the readings were little above 60°, and similar values were reported in the north and east of the United Kingdom. At many places in the south-west of England the maxima were 70°.



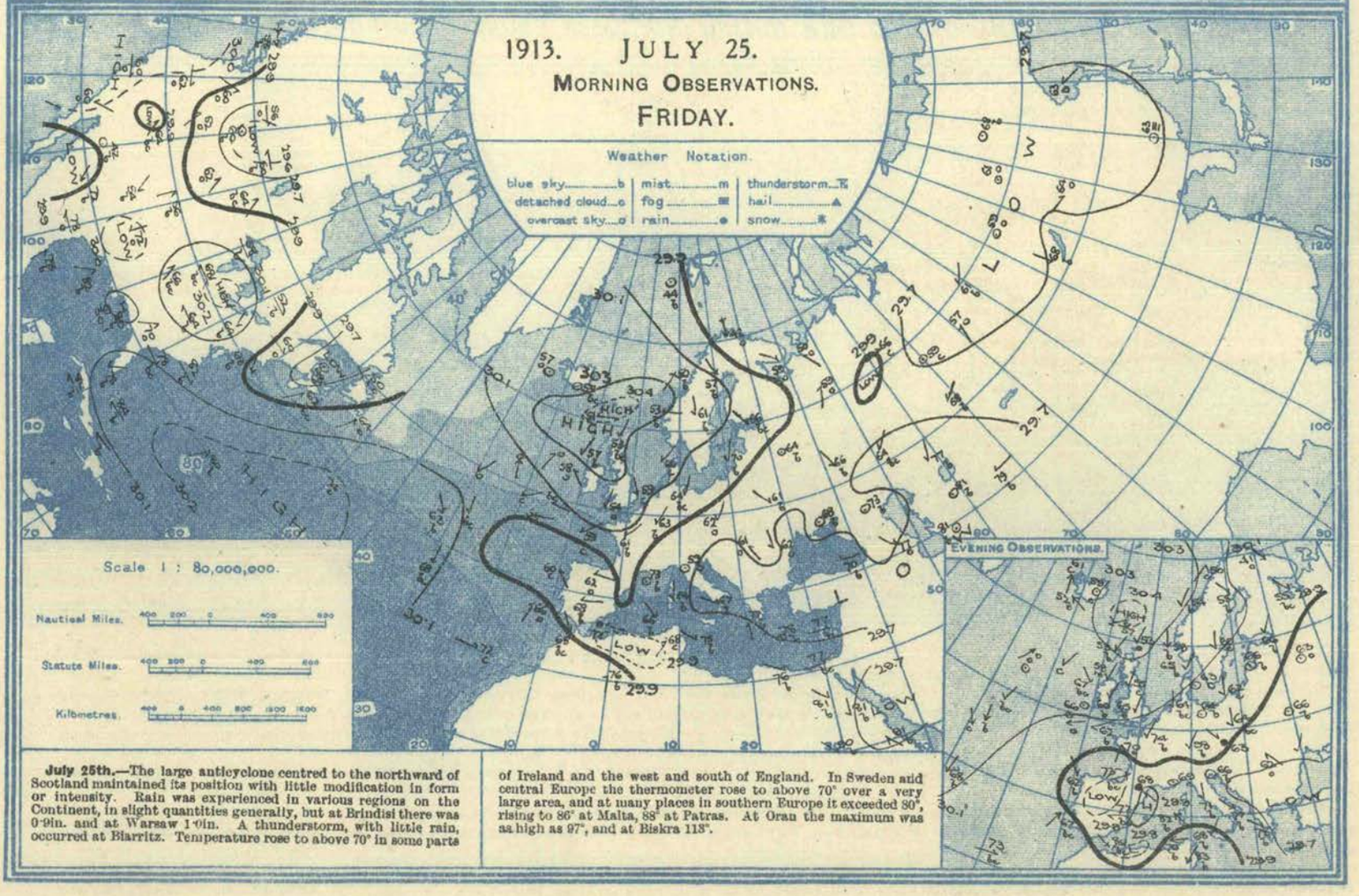
July 22nd.—A depression centred over the south of Sweden moved westward during day, the gradient for Northerly winds over the North Sea became steeper, and a considerable increase of wind occurred in that region generally. Rain fell in the east of England, 0·5in. at Yarmouth, and heavier amounts, with thunder and lightning, in the Netherlands and North Germany; 1·0in. at Cuxhaven and 1·1in. at Brussels. Thunderstorms also occurred in Switzerland, and as much as 1·4in. of rain fell at Karlstad and 1·1in. at Kharkoff. Temperature remained below the normal in nearly all parts of these Islands, the Netherlands, and Germany, but rose to 77° at Hernösand and to 90° at Haparanda. Readings above 80° were common over the Mediterranean region; at Madrid the thermometer touched 99°.



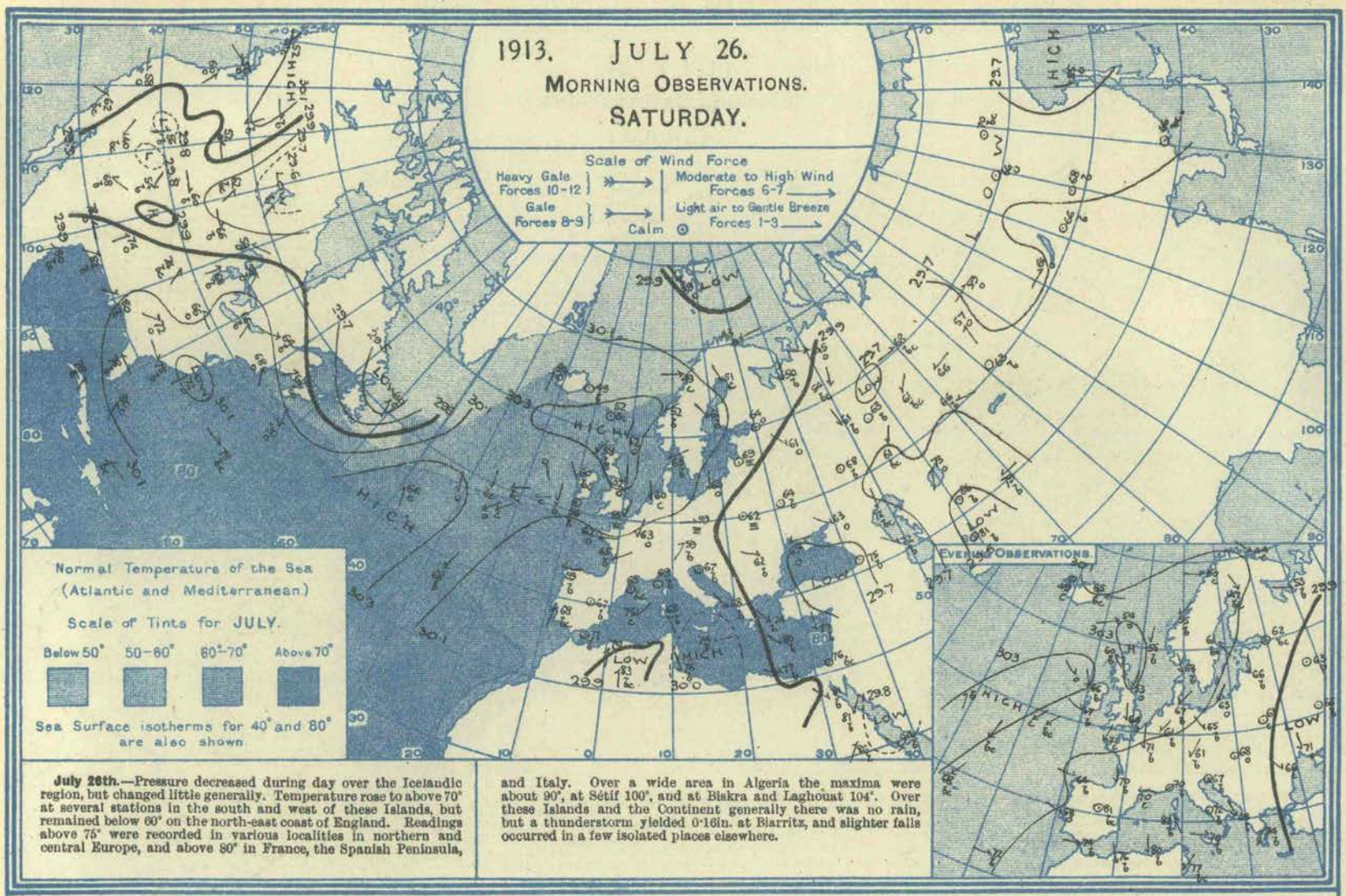
July 23rd.—A depression over the Netherlands travelled southward and decreased in intensity, while another system over the north of Italy grew deeper. Northerly strong winds to a strong gale were felt on our east coasts early. Rain was experienced in the north-east and east of France and in various places over a large area in central Europe and Russia, as well as at Florence; 1·1in. at Vienna and 1·5in. at Carlsruhe. Temperature rose to above 70° in the western and south-western parts of the Kingdom, but only to 58° at Nottingham and 59° in London. In the north of Sweden the maximum temperature was above 75°, and at many stations in southern Europe above 80°; at Brindisi 91°, San Fernando 90°, and at Madrid 100°. Throughout the central countries of the Continent the thermometer remained below 75°.



July 24th.—Very little change occurred in the general distribution of pressure during day. Rain was experienced over a large area on the Continent, the quantity being slight generally, but 0·7in. at Trieste and Pesaro. In almost all parts of this country the weather was rainless. Temperature readings as high as 97° were registered at Madrid and Malaga, and also at Algiers, while at Biskra and Laghouat the figure was 109°. Over southern Europe generally the maxima were a few degrees above or below 80°, in central and northern Europe above 70° at many stations, but at Munich the thermometer rose no higher than 55°. Readings of 70° or slightly above were common in the south and west of the United Kingdom, but in the north-east they were much lower.

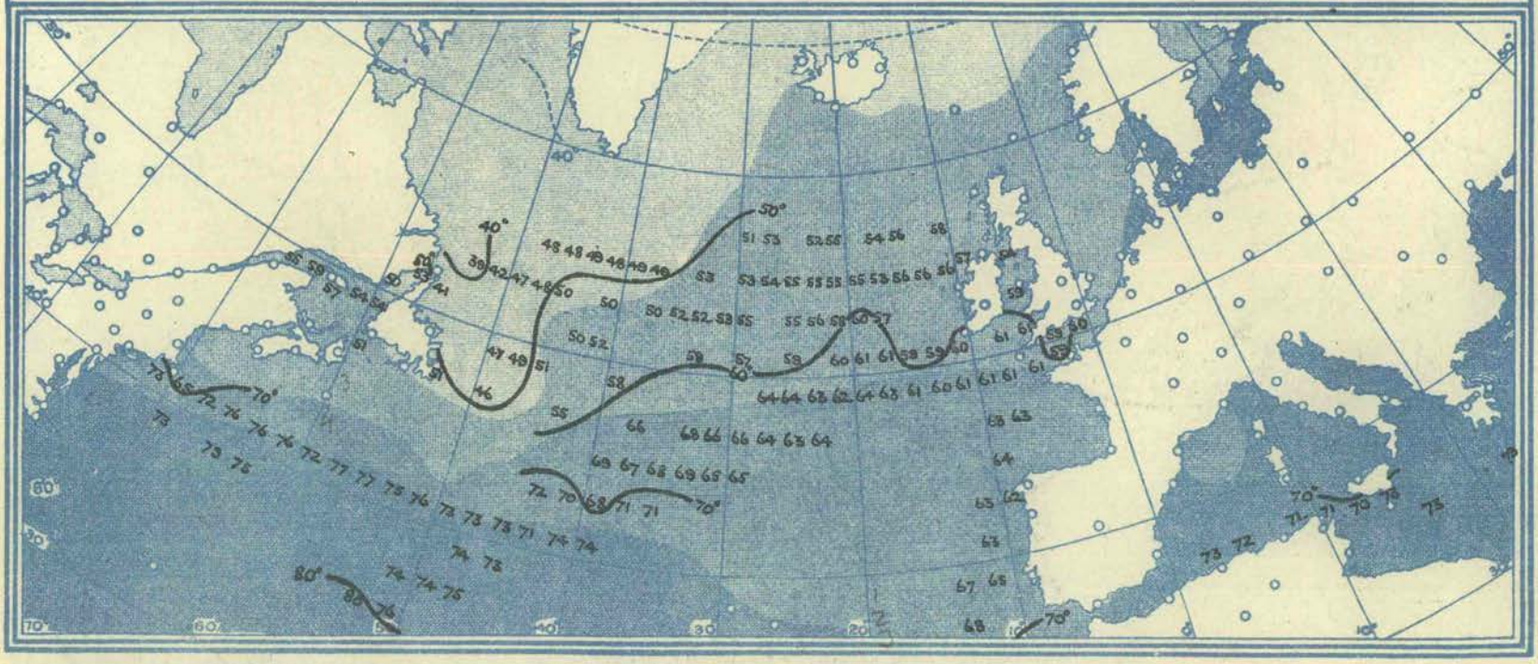


July 25th.—The large anticyclone centred to the northward of Scotland maintained its position with little modification in form or intensity. Rain was experienced in various regions on the Continent, in slight quantities generally, but at Brindisi there was 0·9in. and at Warsaw 1·0in. A thunderstorm, with little rain, occurred at Biarritz. Temperature rose to above 70° in some parts of Ireland and the west and south of England. In Sweden and central Europe the thermometer rose to above 70° over a very large area, and at many places in southern Europe it exceeded 80°, rising to 86° at Malta, 88° at Patras. At Oran the maximum was as high as 97°, and at Biskra 113°.



July 25th.—Pressure decreased during day over the Icelandic region, but changed little generally. Temperature rose to above 70° at several stations in the south and west of these Islands, but remained below 60° on the north-east coast of England. Readings above 75° were recorded in various localities in northern and central Europe, and above 80° in France, the Spanish Peninsula, and Italy. Over a wide area in Algeria the maxima were about 90°, at Sétif 100°, and at Biskra and Laghouat 104°. Over these Islands and the Continent generally there was no rain, but a thunderstorm yielded 0·16in. at Biarritz, and slighter falls occurred in a few isolated places elsewhere.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 26TH JULY, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain and in the Azores. These times refer to Greenwich Mean Time.

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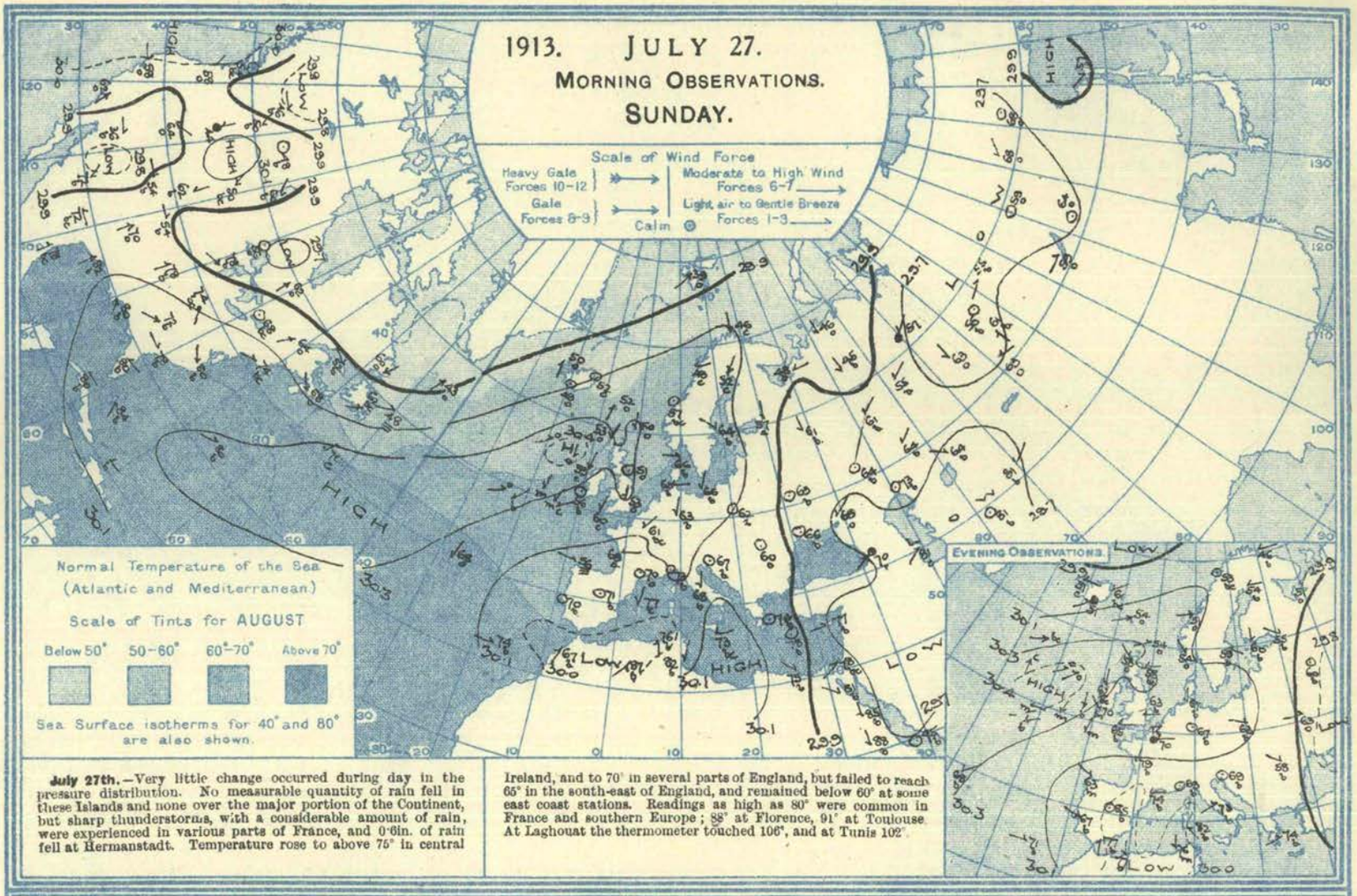
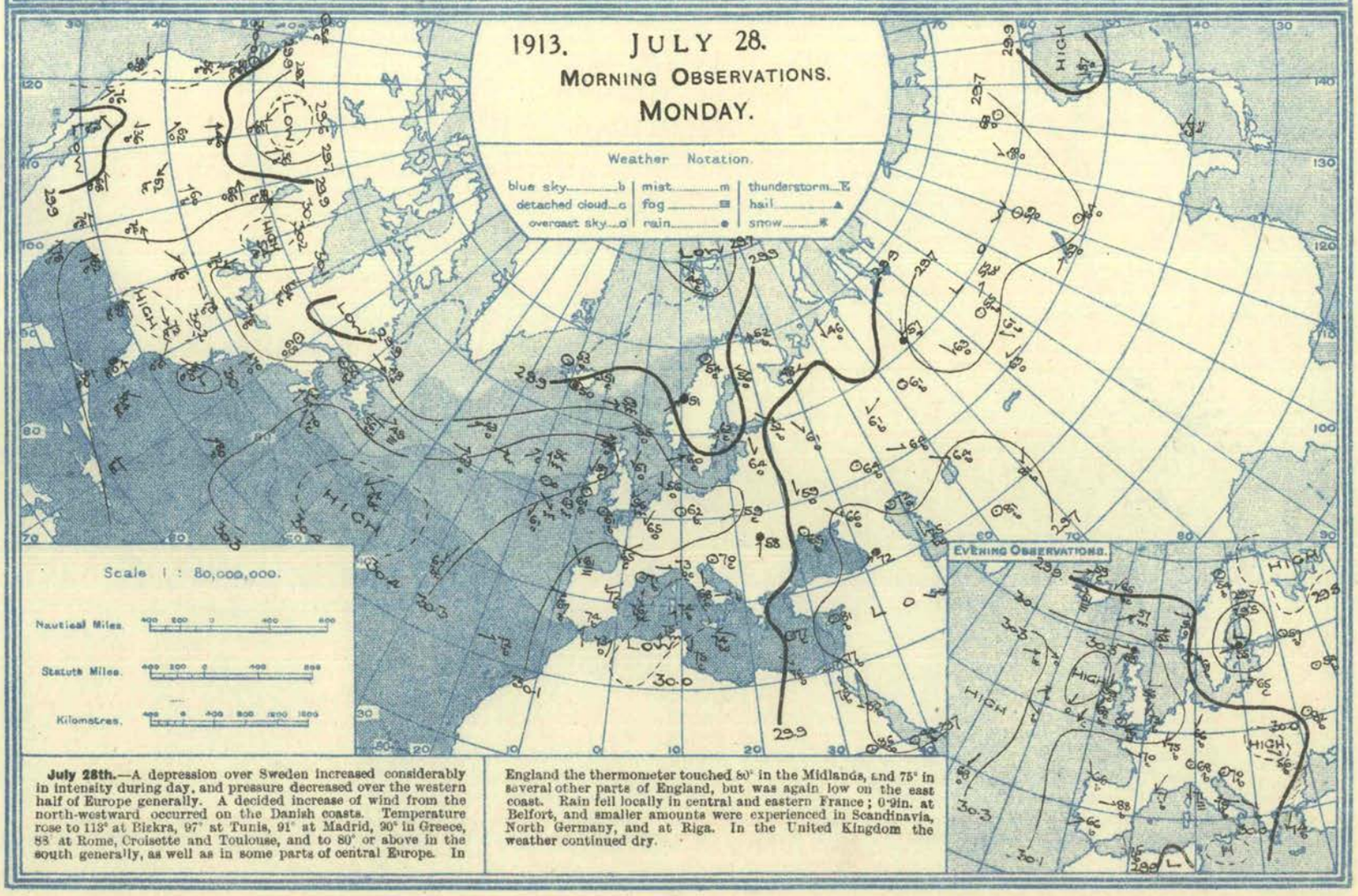
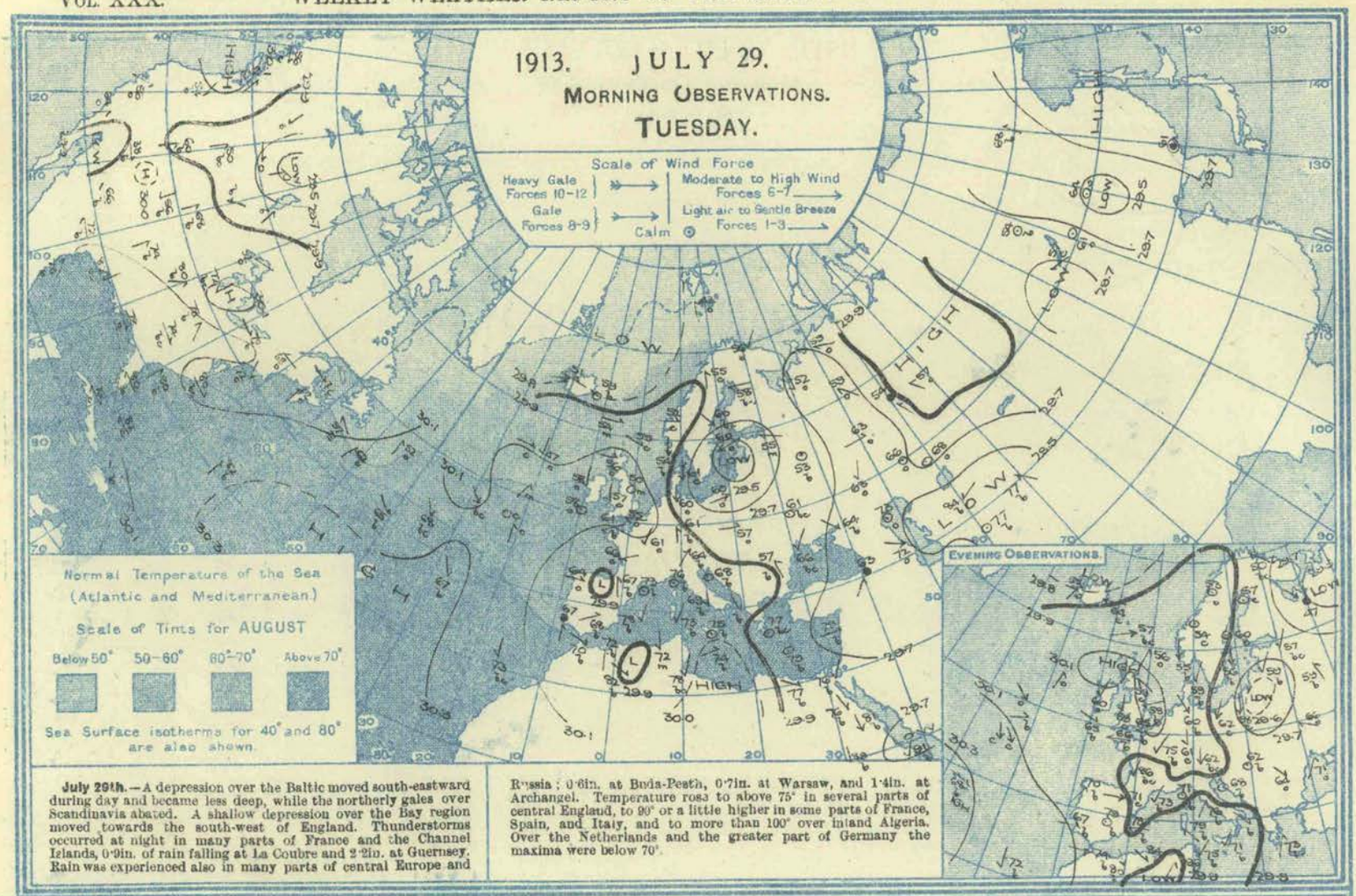
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40° and 80° are shown by blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



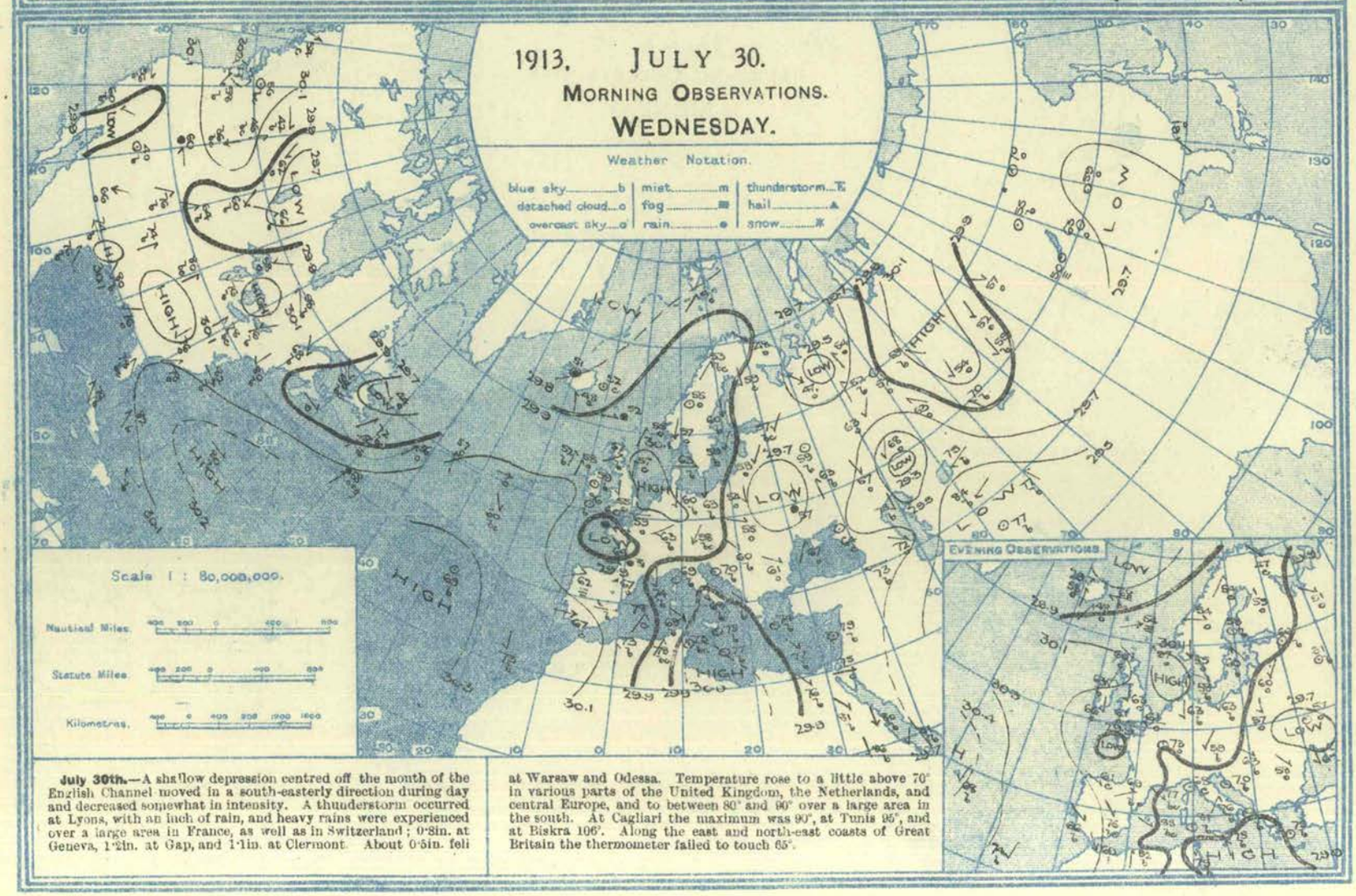
July 27th.—Very little change occurred during day in the pressure distribution. No measurable quantity of rain fell in these Islands and none over the major portion of the Continent, but sharp thunderstorms, with a considerable amount of rain, were experienced in various parts of France, and 0·6in. of rain fell at Hermanstadt. Temperature rose to above 75° in central Ireland, and to 70° in several parts of England, but failed to reach 65° in the south-east of England, and remained below 60° at some east coast stations. Readings as high as 80° were common in France and southern Europe; 88° at Florence, 91° at Toulouse. At Laghouat the thermometer touched 106°, and at Tunis 102°.



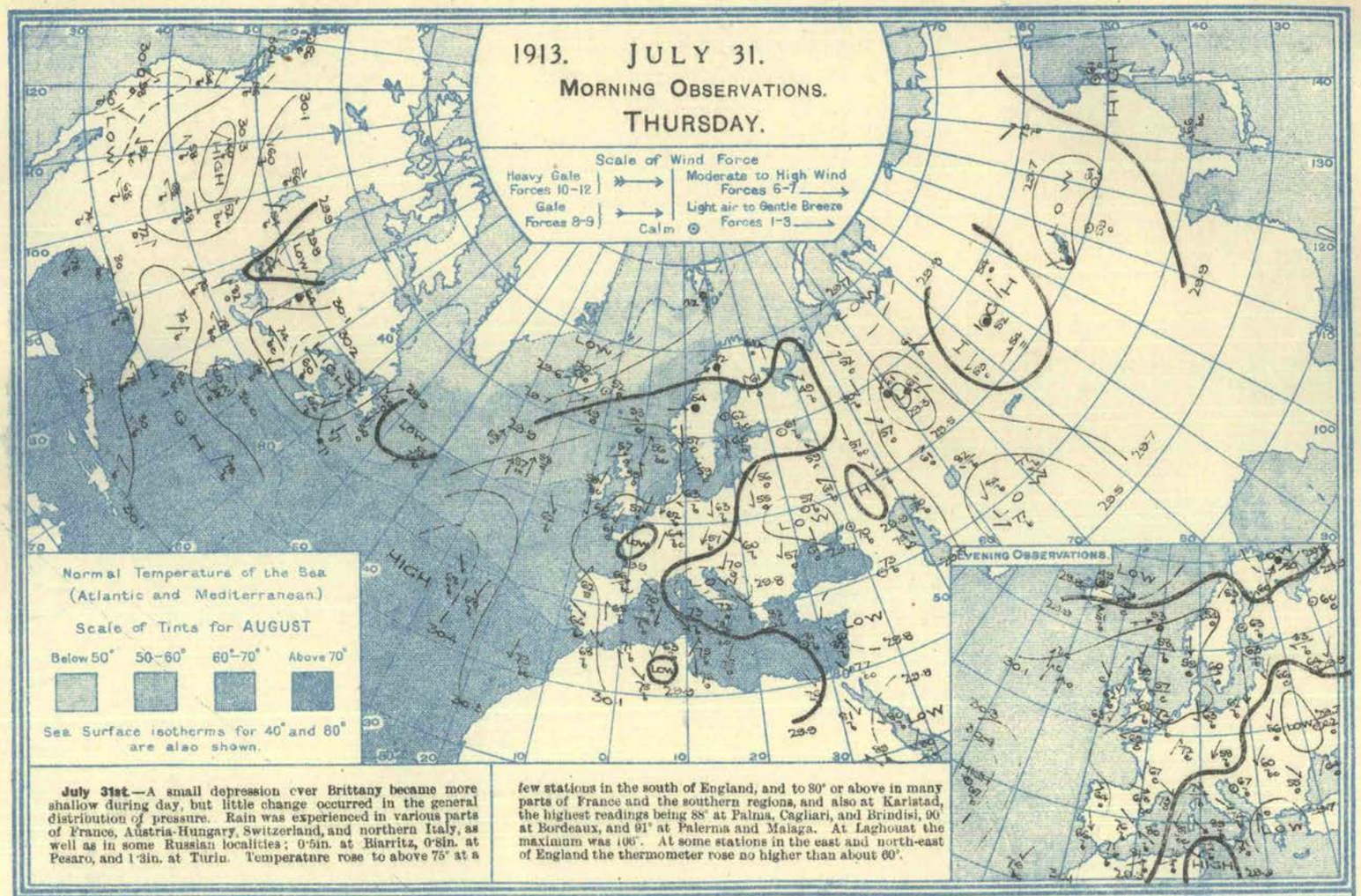
July 28th.—A depression over Sweden increased considerably in intensity during day, and pressure decreased over the western half of Europe generally. A decided increase of wind from the north-westward occurred on the Danish coasts. Temperature rose to 113° at Biskra, 97° at Tunis, 91° at Madrid, 90° in Greece, 88° at Rome, Croisette and Toulouse, and to 80° or above in the south generally, as well as in some parts of central Europe. In England the thermometer touched 80° in the Midlands, and 75° in several other parts of England, but was again low on the east coast. Rain fell locally in central and eastern France; 0·9in. at Belfort, and smaller amounts were experienced in Scandinavia, North Germany, and at Riga. In the United Kingdom the weather continued dry.



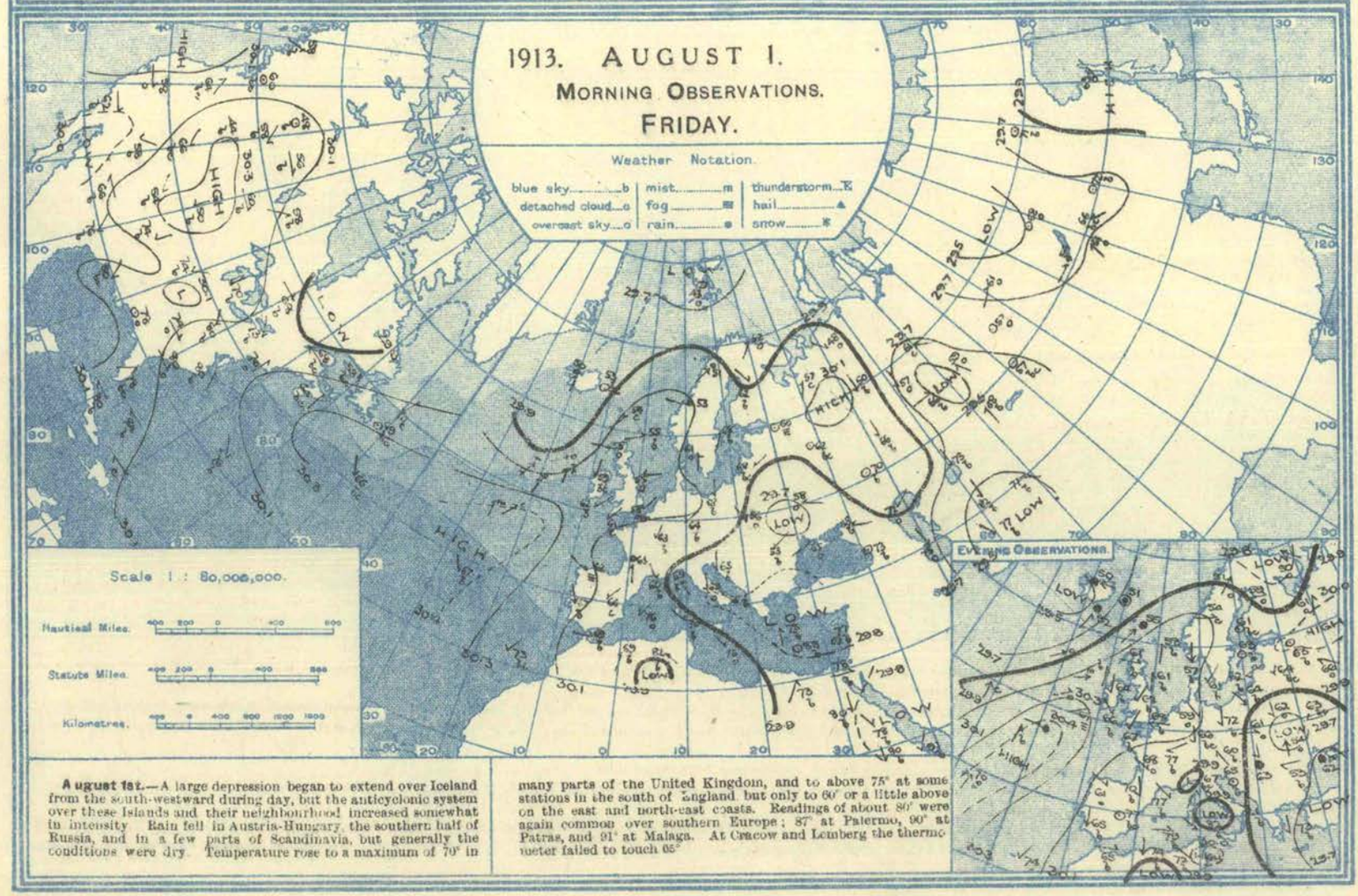
July 29th.—A depression over the Baltic moved south-eastward during day and became less deep, while the northerly gales over Scandinavia abated. A shallow depression over the Bay region moved towards the south-west of England. Thunderstorms occurred at night in many parts of France and the Channel Islands, 0·9in. of rain falling at La Coubre and 2·2in. at Guernsey. Rain was experienced also in many parts of central Europe and Russia; 0·6in. at Buda-Pesth, 0·7in. at Warsaw, and 1·4in. at Archangel. Temperature rose to above 75° in several parts of central England, to 90° or a little higher in some parts of France, Spain, and Italy, and to more than 100° over inland Algeria. Over the Netherlands and the greater part of Germany the maxima were below 70°.



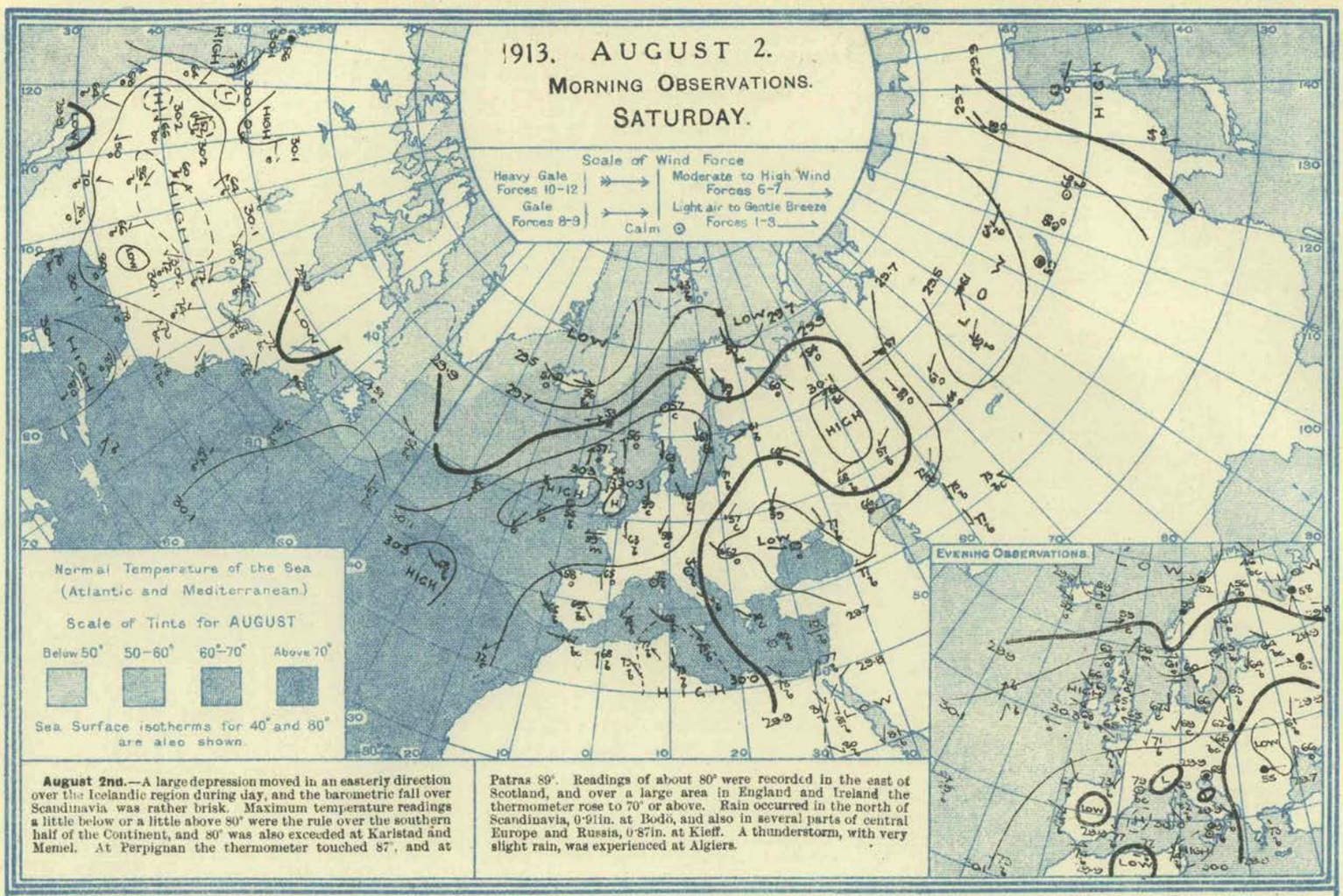
July 30th.—A shallow depression centred off the mouth of the English Channel moved in a south-easterly direction during day and decreased somewhat in intensity. A thunderstorm occurred at Lyons, with an inch of rain, and heavy rains were experienced over a large area in France, as well as in Switzerland; 0·8in. at Geneva, 1·2in. at Gap, and 1·1in. at Clermont. About 0·5in. fell at Warsaw and Odessa. Temperature rose to a little above 70° in various parts of the United Kingdom, the Netherlands, and central Europe, and to between 80° and 90° over a large area in the south. At Cagliari the maximum was 90°, at Tunis 95°, and at Biskra 106°. Along the east and north-east coasts of Great Britain the thermometer failed to touch 65°.



July 31st.—A small depression over Brittany became more shallow during day, but little change occurred in the general distribution of pressure. Rain was experienced in various parts of France, Austria-Hungary, Switzerland, and northern Italy, as well as in some Russian localities; 0·5in. at Biarritz, 0·8in. at Pesaro, and 1·3in. at Turin. Temperature rose to above 75° at a few stations in the south of England, and to 80° or above in many parts of France and the southern regions, and also at Karlstad, the highest readings being 88° at Palma, Cagliari, and Brindisi, 90° at Bordeaux, and 91° at Palermo and Malaga. At Laghouat the maximum was 106°. At some stations in the east and north-east of England the thermometer rose no higher than about 60°.

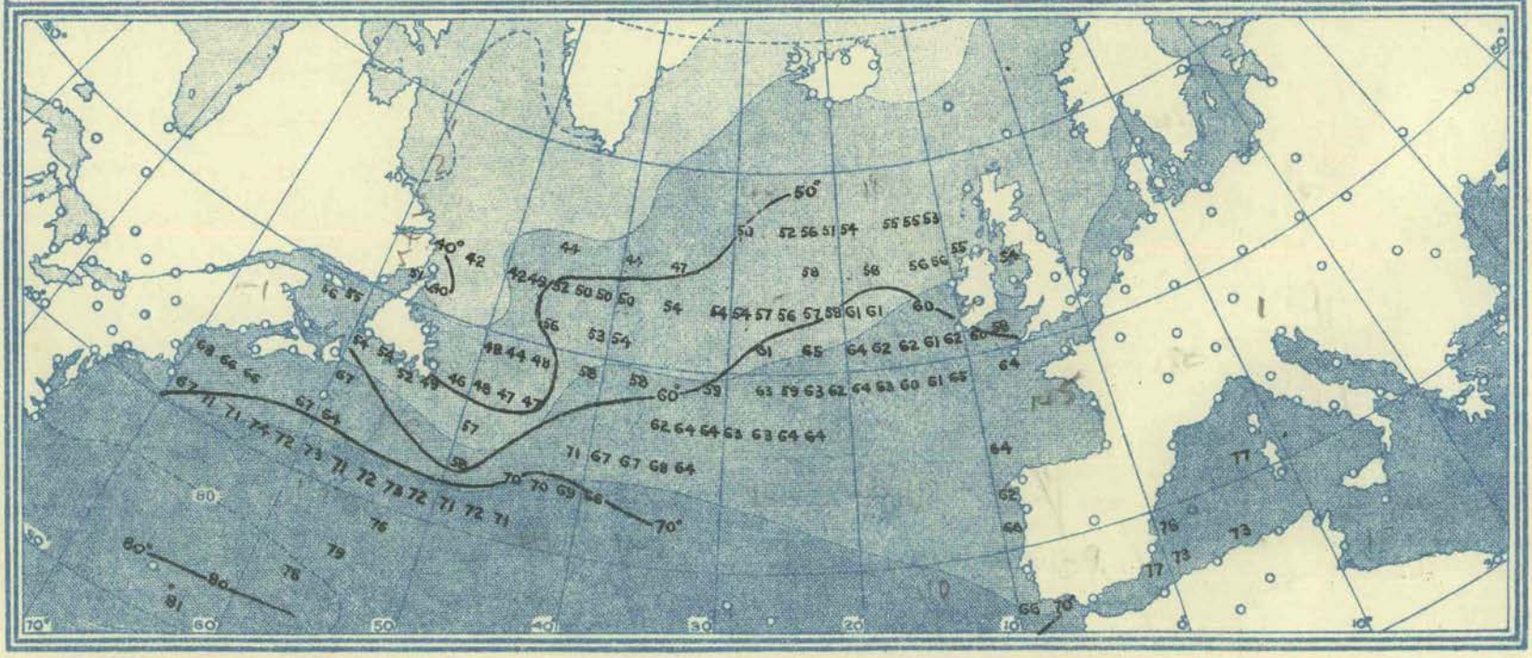


August 1st.—A large depression began to extend over Iceland from the south-westward during day, but the anticyclonic system over these Islands and their neighbourhood increased somewhat in intensity. Rain fell in Austria-Hungary, the southern half of Russia, and in a few parts of Scandinavia, but generally the conditions were dry. Temperature rose to a maximum of 70° in many parts of the United Kingdom, and to above 75° at some stations in the south of England, but only to 60° or a little above on the east and north-east coasts. Readings of about 80° were again common over southern Europe; 87° at Palermo, 90° at Patras, and 91° at Malaga. At Cracow and Lemberg the thermometer failed to touch 65°.



August 2nd.—A large depression moved in an easterly direction over the Icelandic region during day, and the barometric fall over Scandinavia was rather brisk. Maximum temperature readings a little below or a little above 80° were the rule over the southern half of the Continent, and 80° was also exceeded at Karlstad and Memel. At Perpignan the thermometer touched 87°, and at Patras 89°. Readings of about 80° were recorded in the east of Scotland, and over a large area in England and Ireland the thermometer rose to 70° or above. Rain occurred in the north of Scandinavia, 0·91in. at Bodö, and also in several parts of central Europe and Russia, 0·87in. at Kieff. A thunderstorm, with very slight rain, was experienced at Algiers.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 2nd Aug, 1913.



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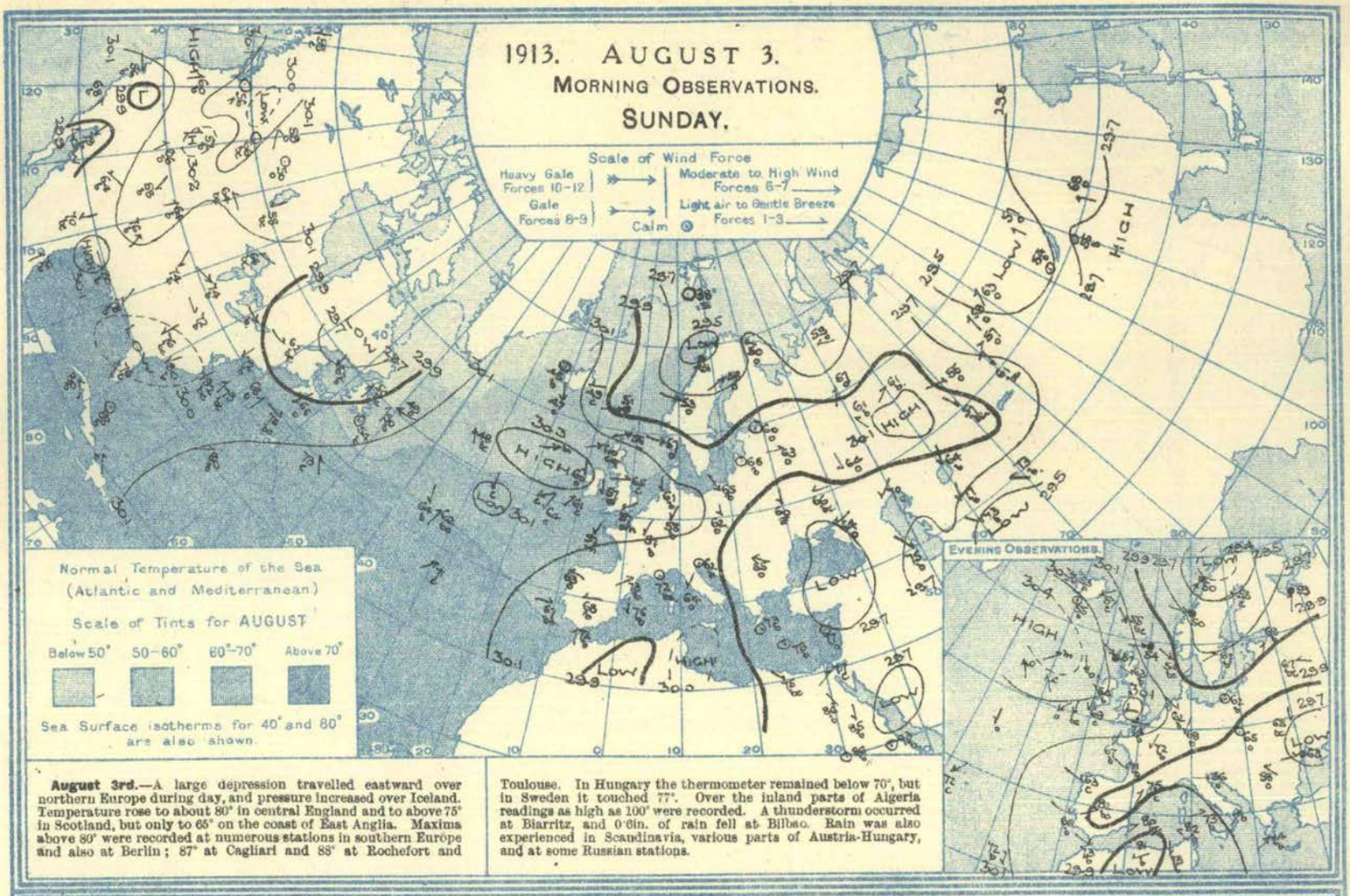
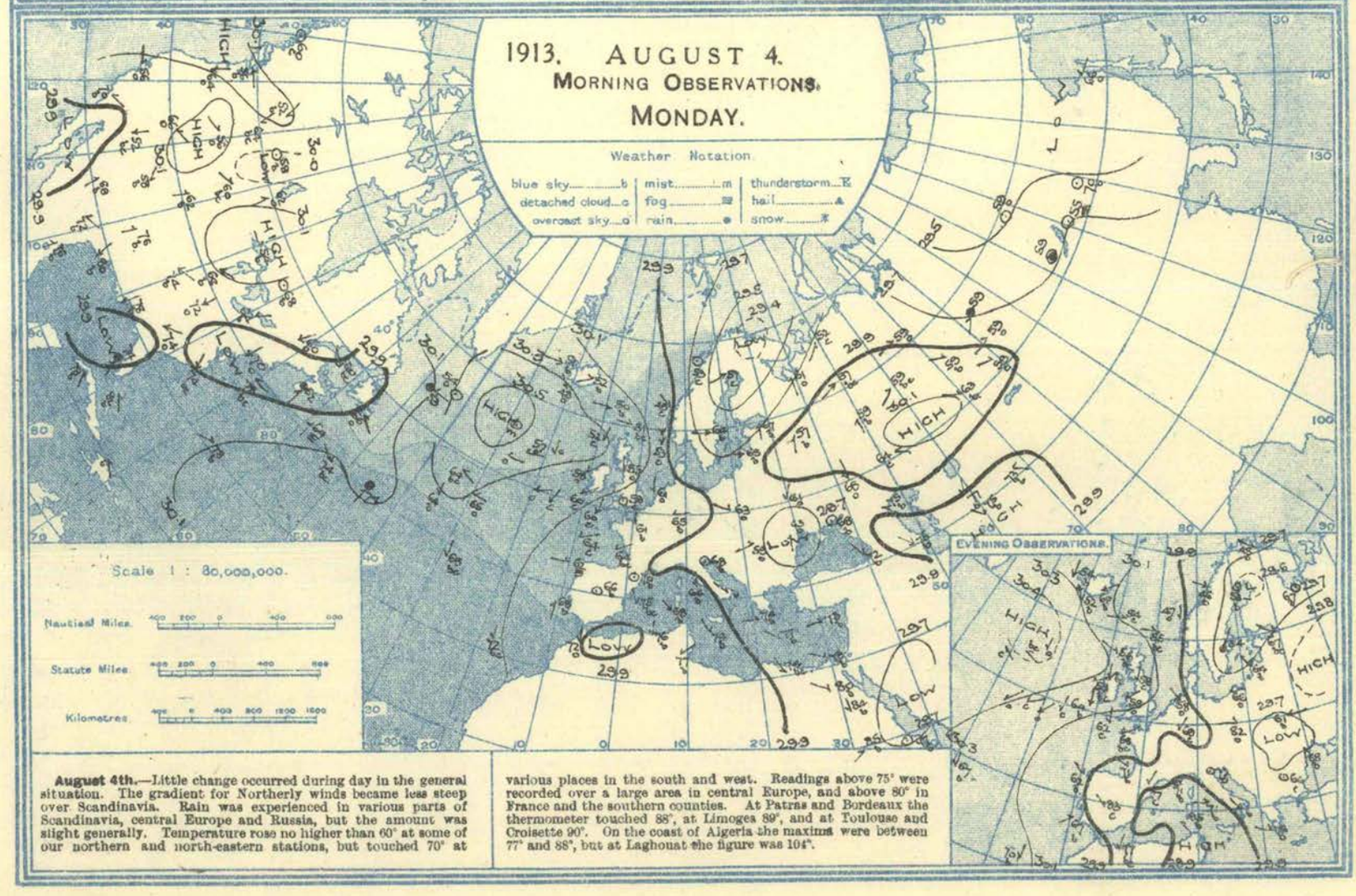
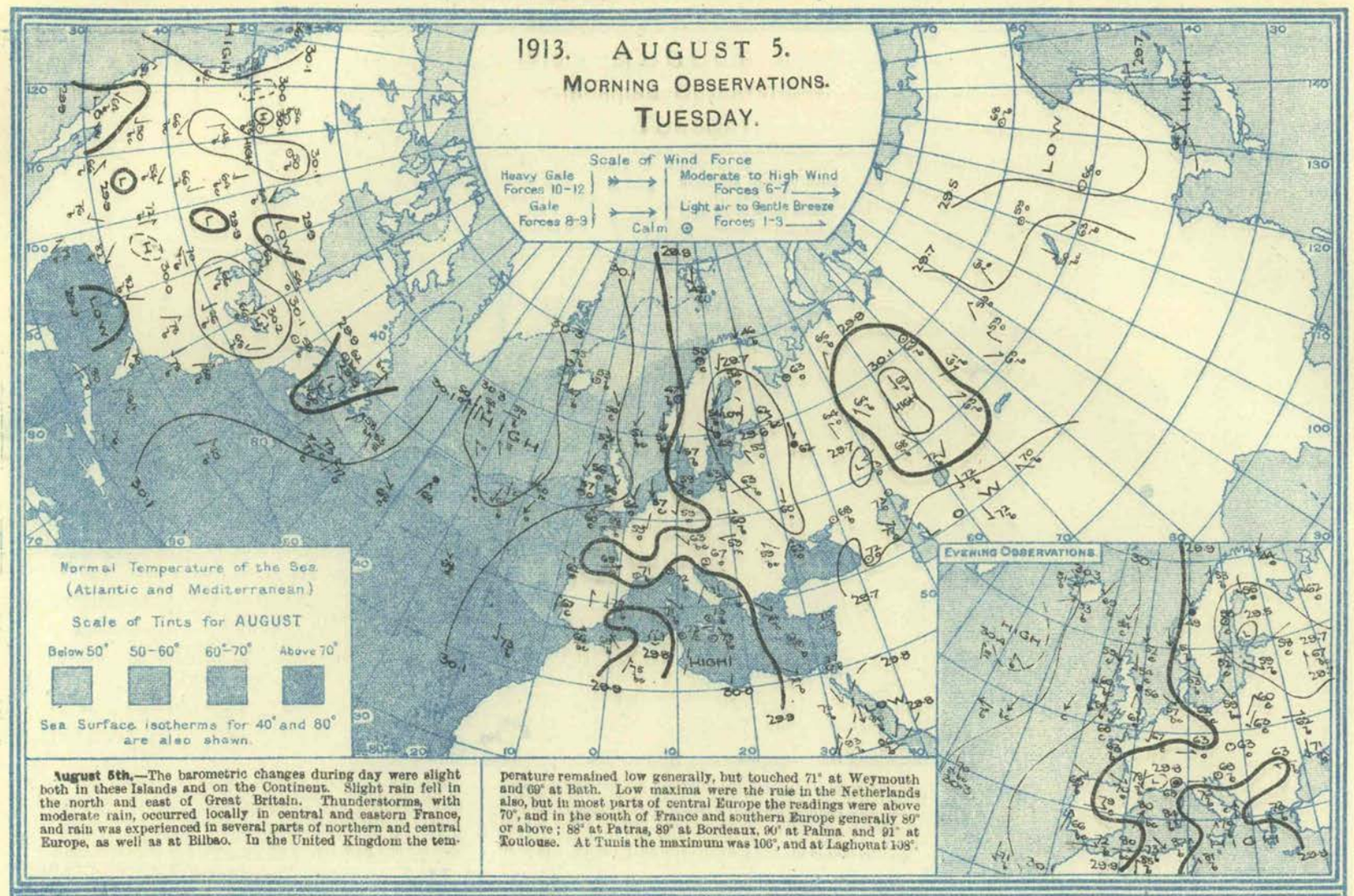


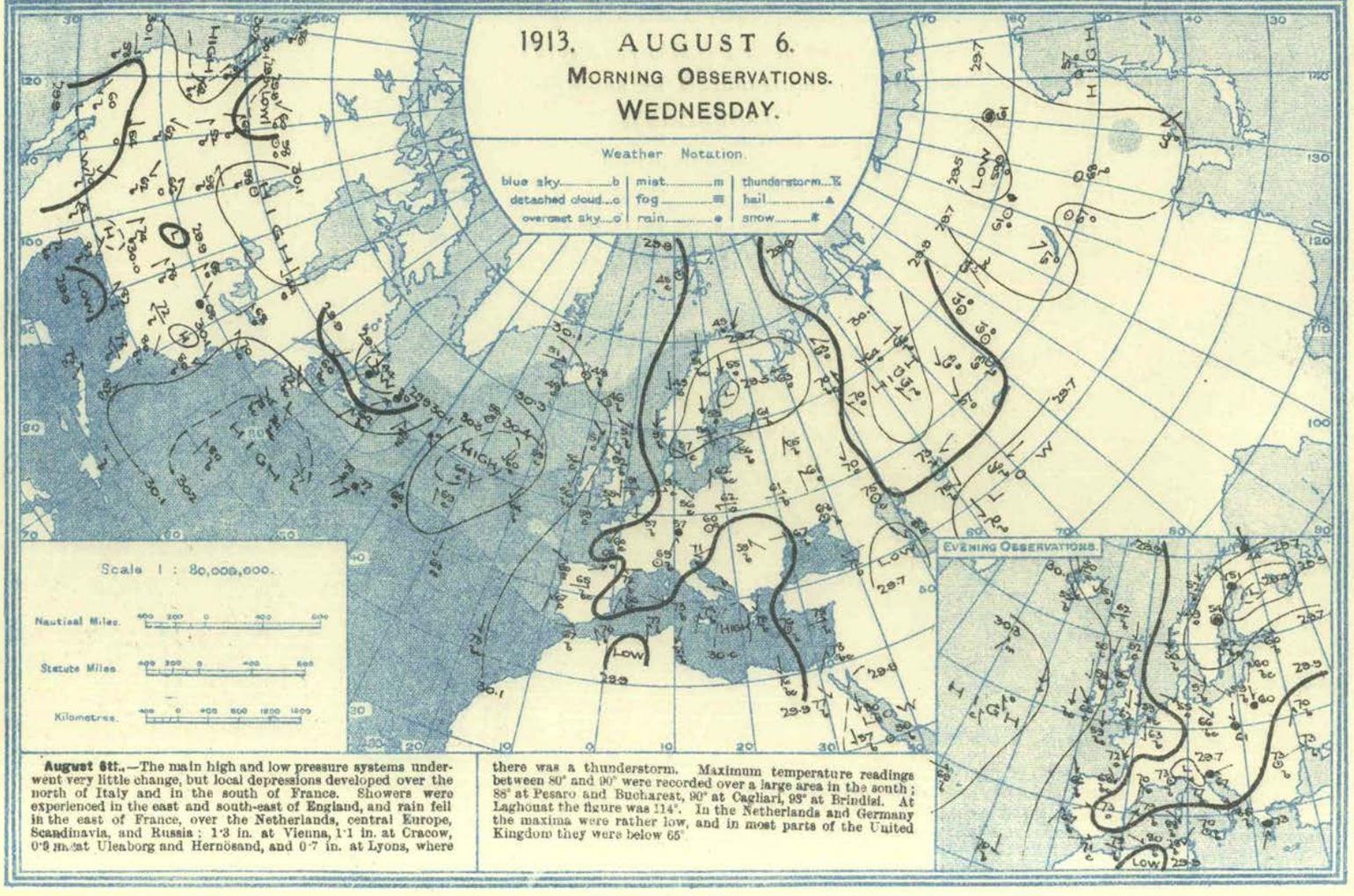
August 3rd.—A large depression travelled eastward over northern Europe during day, and pressure increased over Iceland. Temperature rose to about 80° in central England and to above 75° in Scotland, but only to 65° on the coast of East Anglia. Maxima above 80° were recorded at numerous stations in southern Europe and also at Berlin; 87° at Cagliari and 88° at Rochefort and Toulouse. In Hungary the thermometer remained below 70°, but in Sweden it touched 77°. Over the inland parts of Algeria readings as high as 100° were recorded. A thunderstorm occurred at Biarritz, and 0·6in. of rain fell at Bilbao. Rain was also experienced in Scandinavia, various parts of Austria-Hungary, and at some Russian stations.



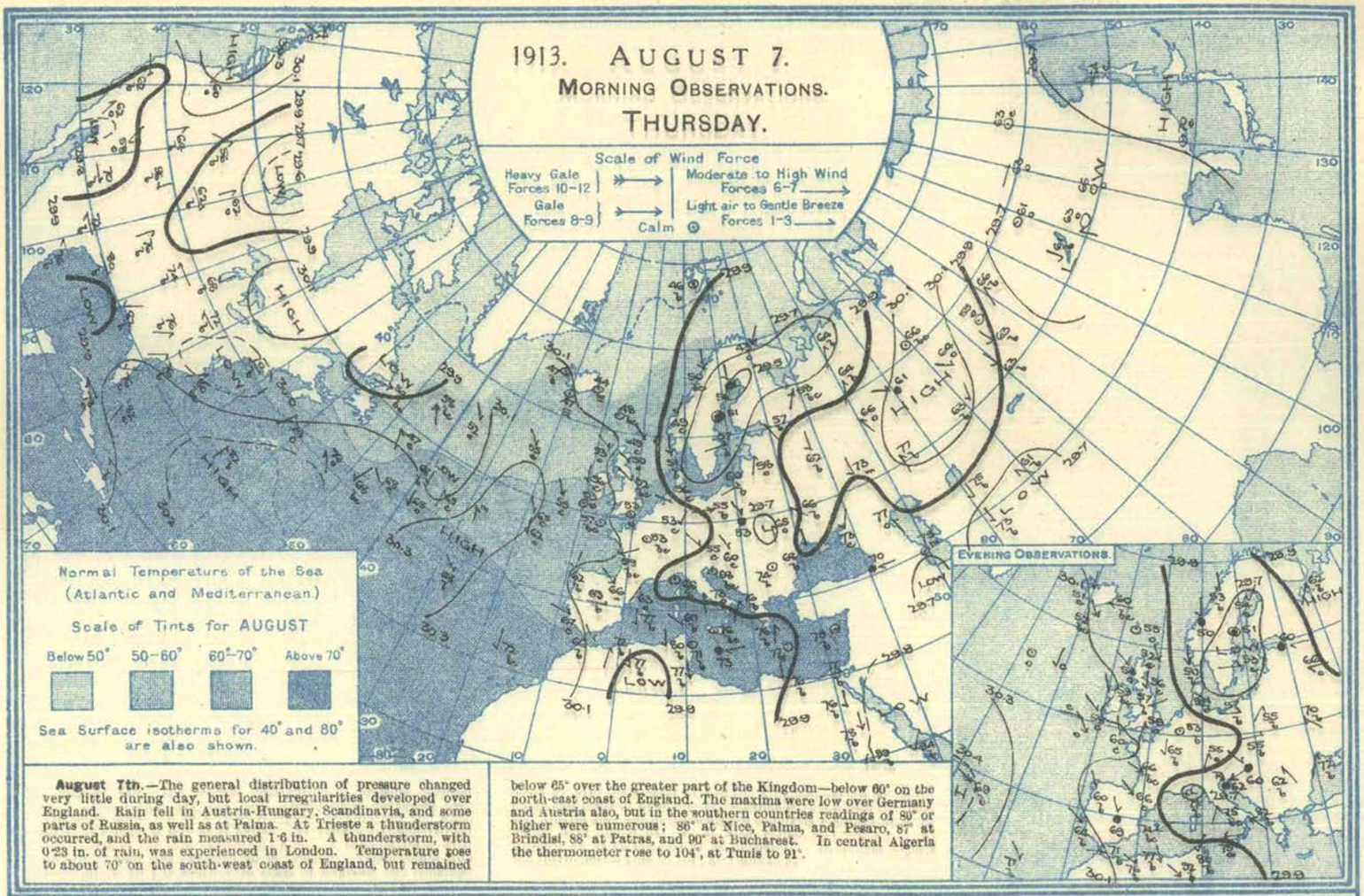
August 4th.—Little change occurred during day in the general situation. The gradient for Northerly winds became less steep over Scandinavia. Rain was experienced in various parts of Scandinavia, central Europe and Russia, but the amount was slight generally. Temperature rose no higher than 60° at some of our northern and north-eastern stations, but touched 70° at various places in the south and west. Readings above 75° were recorded over a large area in central Europe, and above 80° in France and the southern counties. At Patras and Bordeaux the thermometer touched 88°, at Limoges 89°, and at Toulouse and Croisette 90°. On the coast of Algeria the maxima were between 77° and 88°, but at Laghouat the figure was 104°.



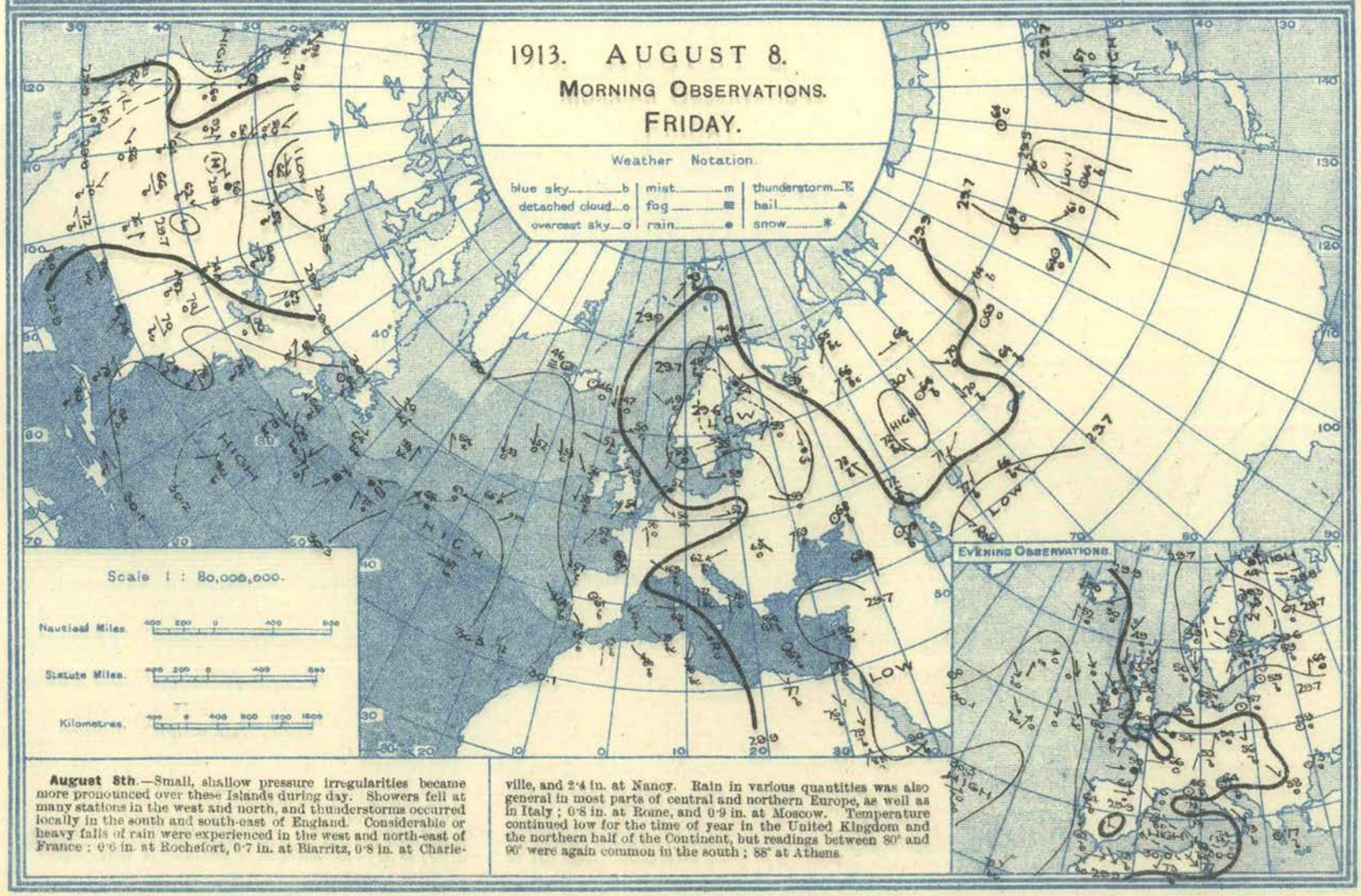
August 5th.—The barometric changes during day were slight both in these Islands and on the Continent. Slight rain fell in the north and east of Great Britain. Thunderstorms, with moderate rain, occurred locally in central and eastern France, and rain was experienced in several parts of northern and central Europe, as well as at Bilbao. In the United Kingdom the temperature remained low generally, but touched 71° at Weymouth and 69° at Bath. Low maxima were the rule in the Netherlands also, but in most parts of central Europe the readings were above 70°, and in the south of France and southern Europe generally 80° or above; 88° at Patras, 89° at Bordeaux, 90° at Palma and 91° at Toulouse. At Tunis the maximum was 106°, and at Laghouat 108°.



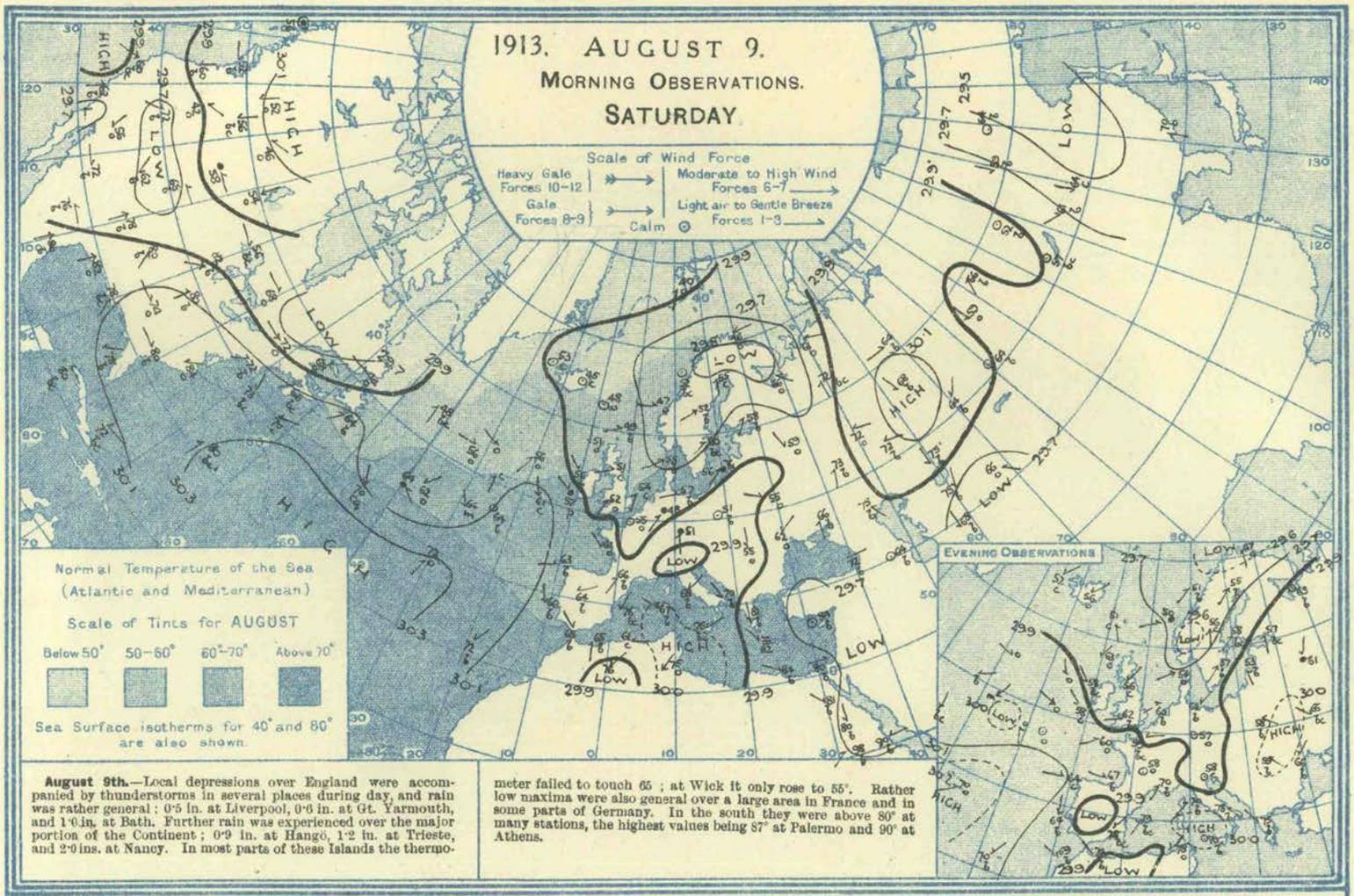
August 6th.—The main high and low pressure systems underwent very little change, but local depressions developed over the north of Italy and in the south of France. Showers were experienced in the east and south-east of England, and rain fell in the east of France, over the Netherlands, central Europe, Scandinavia, and Russia; 1·3 in. at Vienna, 1·1 in. at Cracow, 0·9 in. at Uleaborg and Hernösand, and 0·7 in. at Lyons, where there was a thunderstorm. Maximum temperature readings between 80° and 90° were recorded over a large area in the south; 88° at Pesaro and Bucharest, 90° at Cagliari, 93° at Brindisi. At Laghouat the figure was 114°. In the Netherlands and Germany the maxima were rather low, and in most parts of the United Kingdom they were below 65°.



August 7th.—The general distribution of pressure changed very little during day, but local irregularities developed over England. Rain fell in Austria-Hungary, Scandinavia, and some parts of Russia, as well as at Palma. At Trieste a thunderstorm occurred, and the rain measured 1·6 in. A thunderstorm, with 0·23 in. of rain, was experienced in London. Temperature rose to about 70° on the south-west coast of England, but remained below 65° over the greater part of the Kingdom—below 60° on the north-east coast of England. The maxima were low over Germany and Austria also, but in the southern countries readings of 80° or higher were numerous; 86° at Nice, Palma, and Pesaro, 87° at Brindisi, 88° at Patras, and 90° at Bucharest. In central Algeria the thermometer rose to 104°, at Tunis to 91°.

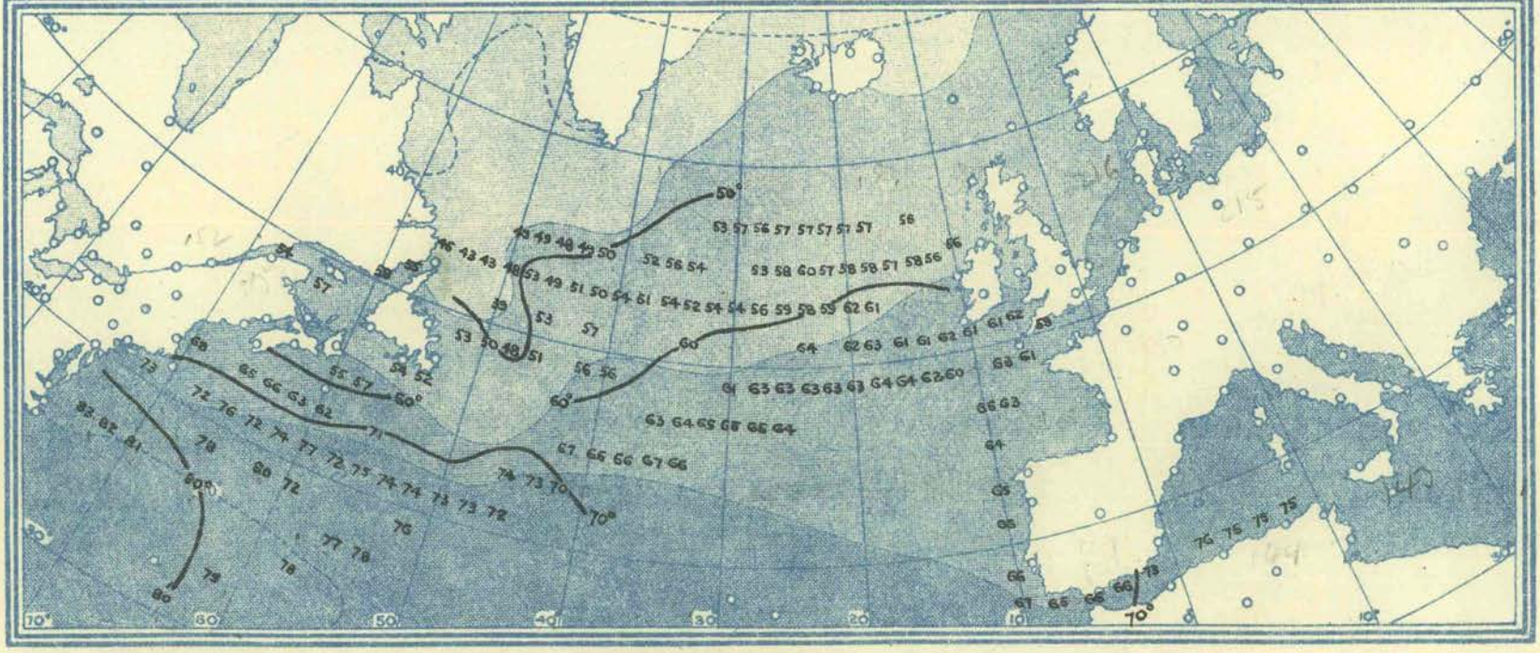


August 8th.—Small, shallow pressure irregularities became more pronounced over these Islands during day. Showers fell at many stations in the west and north, and thunderstorms occurred locally in the south and south-east of England. Considerable or heavy falls of rain were experienced in the west and north-east of France: 0·6 in. at Rochefort, 0·7 in. at Biarritz, 0·8 in. at Charleville, and 2·4 in. at Nancy. Rain in various quantities was also general in most parts of central and northern Europe, as well as in Italy; 0·8 in. at Rome, and 0·9 in. at Moscow. Temperature continued low for the time of year in the United Kingdom and the northern half of the Continent, but readings between 80° and 90° were again common in the south; 88° at Athens.



August 9th.—Local depressions over England were accompanied by thunderstorms in several places during day, and rain was rather general: 0·5 in. at Liverpool, 0·6 in. at Gt. Yarmouth, and 1·0 in. at Bath. Further rain was experienced over the major portion of the Continent; 0·9 in. at Hangö, 1·2 in. at Trieste, and 2·0 ins. at Nancy. In most parts of these Islands the thermometer failed to touch 65; at Wick it only rose to 55°. Rather low maxima were also general over a large area in France and in some parts of Germany. In the south they were above 80° at many stations, the highest values being 87° at Palermo and 90° at Athens.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 9th August 1913.



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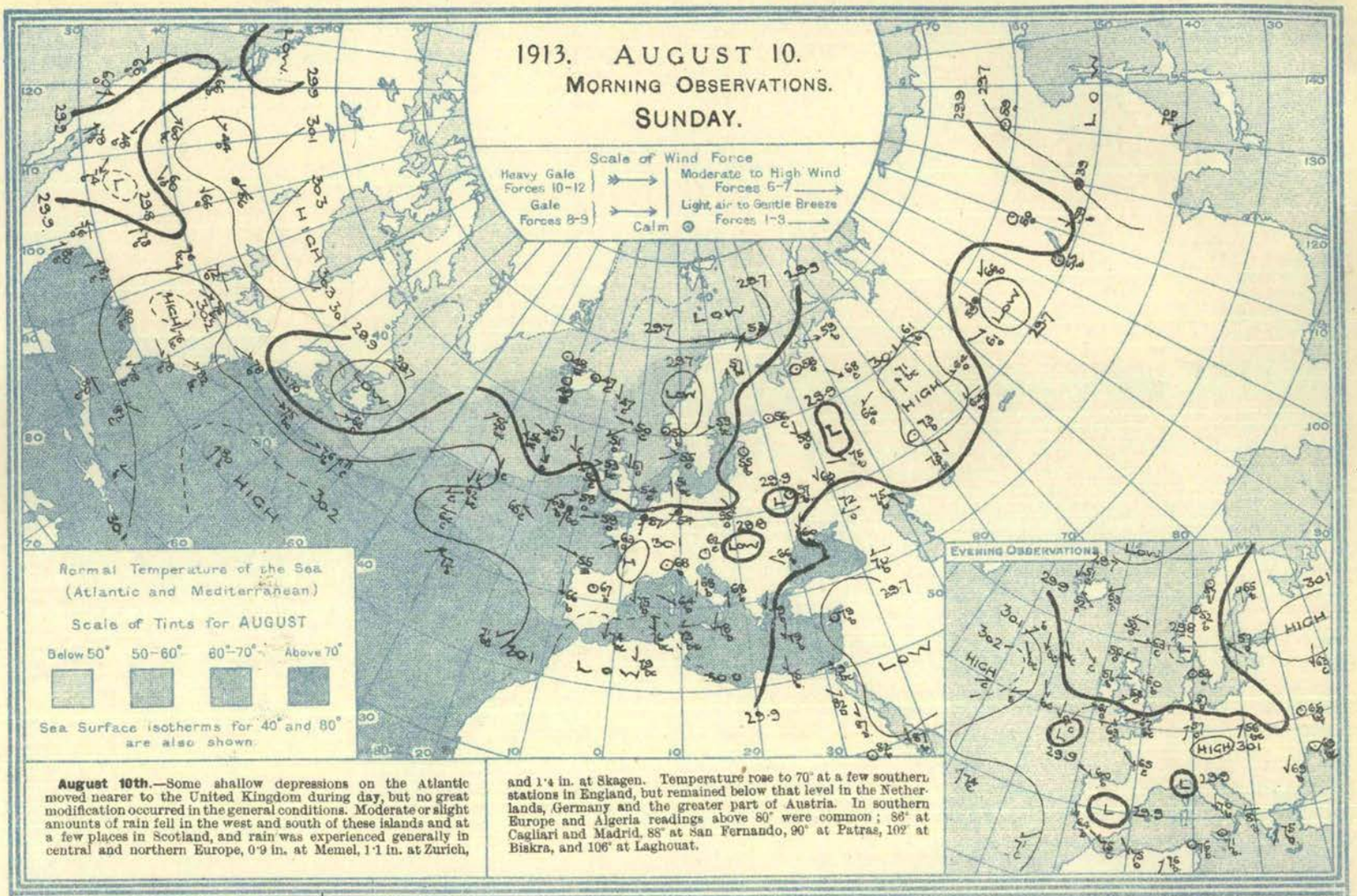
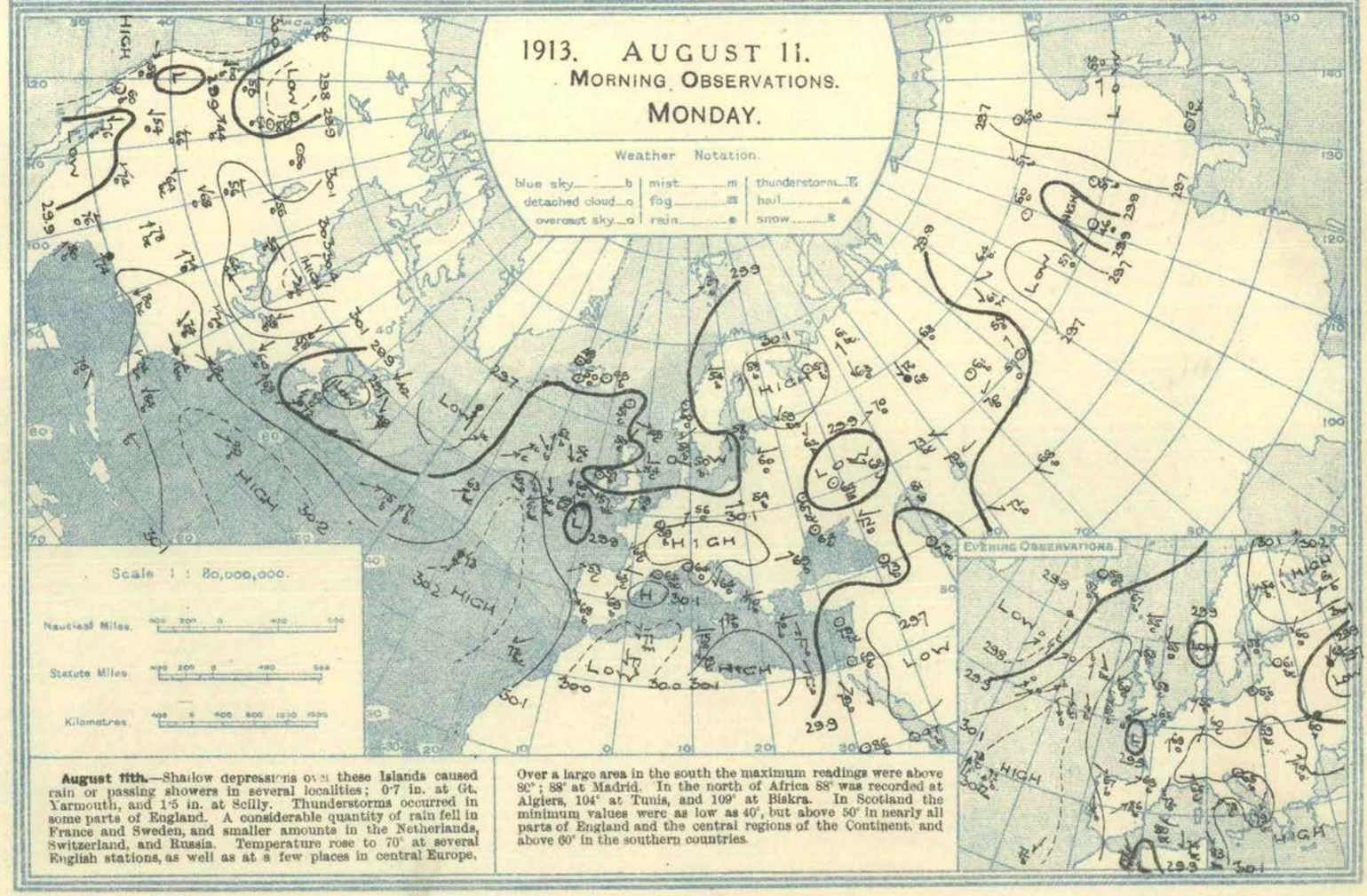
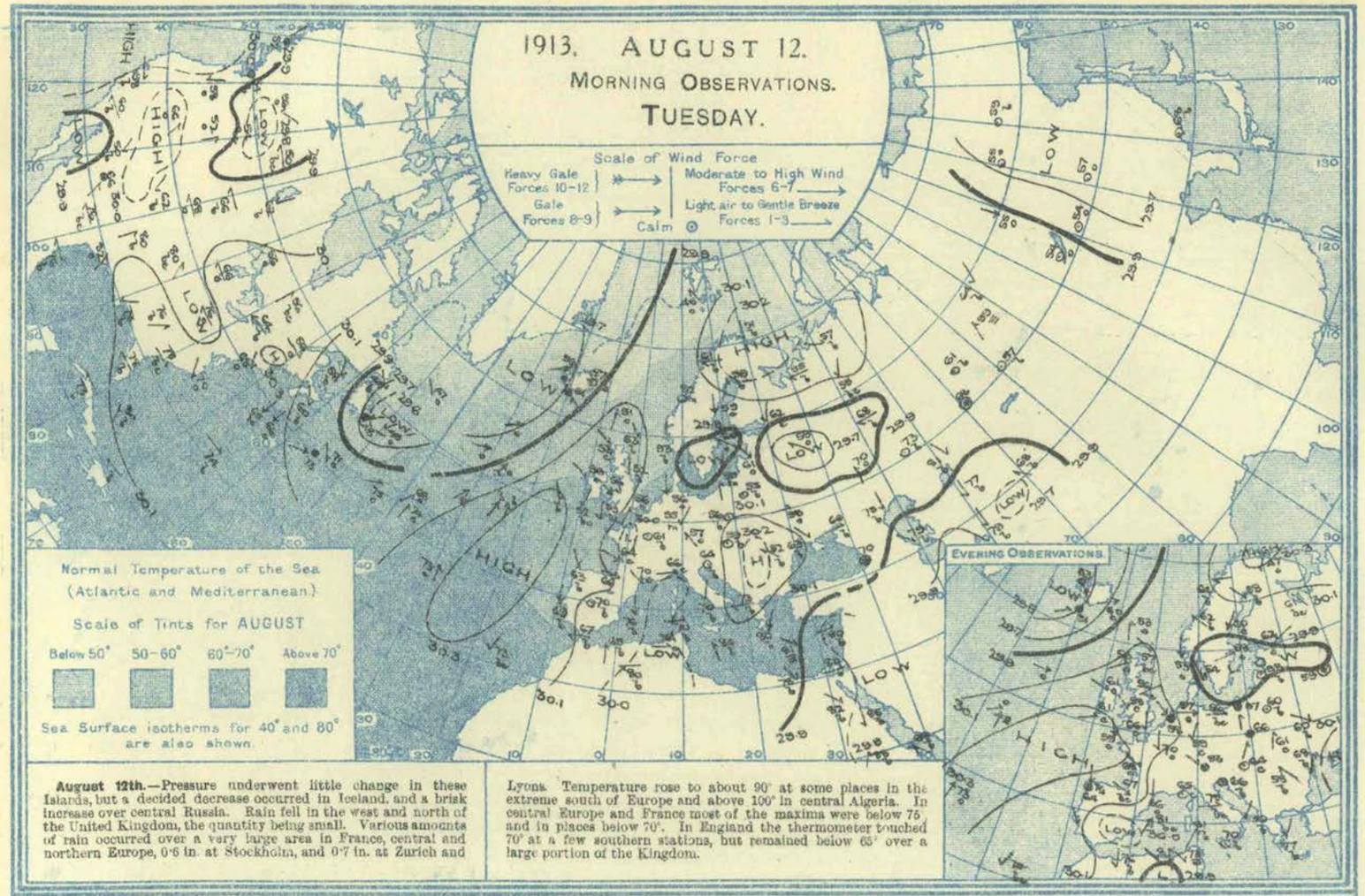


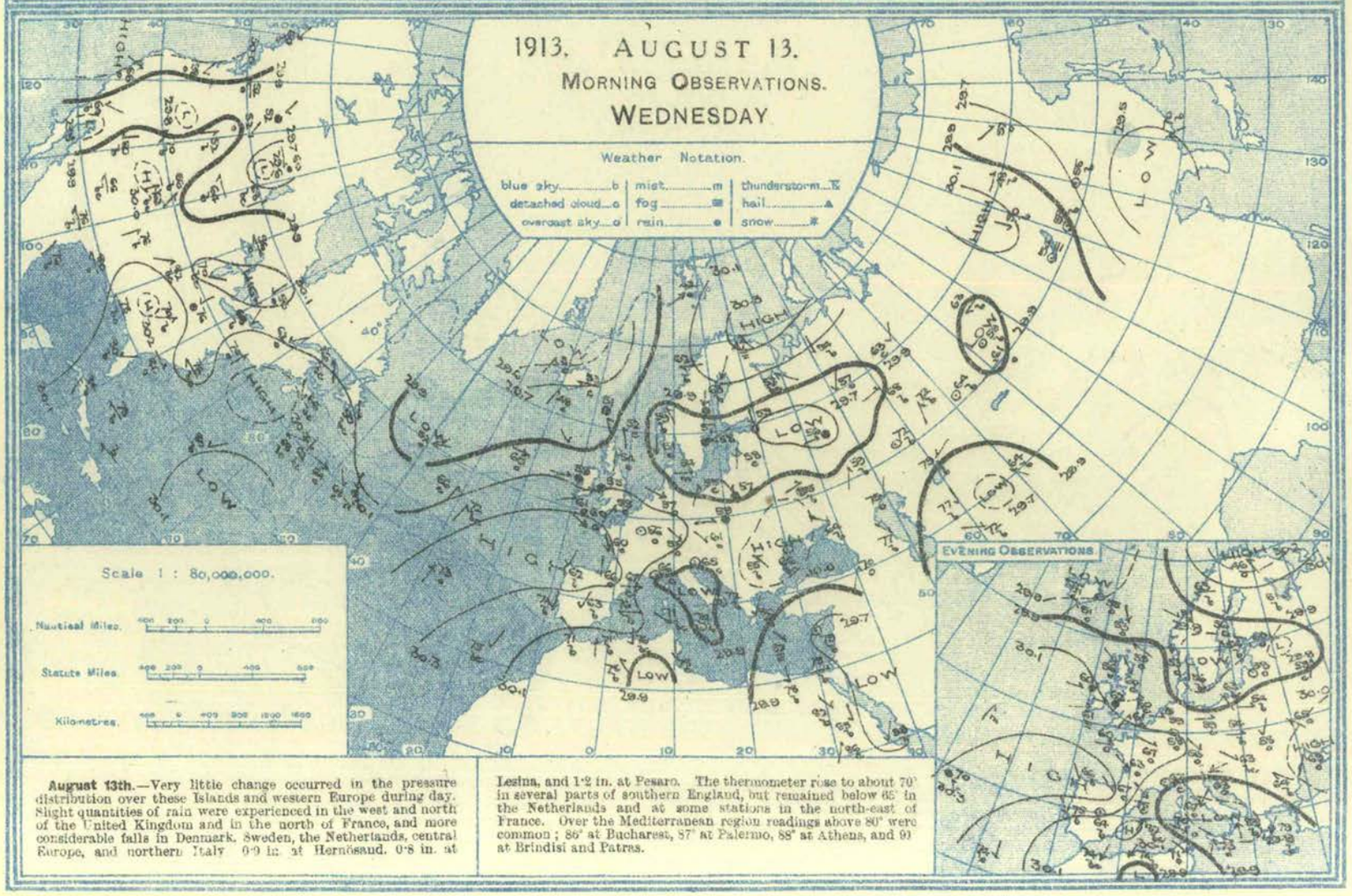
August 10th.—Some shallow depressions on the Atlantic moved nearer to the United Kingdom during day, but no great modification occurred in the general conditions. Moderate or slight amounts of rain fell in the west and south of these islands and at a few places in Scotland, and rain was experienced generally in central and northern Europe, 0·9 in. at Memel, 1·1 in. at Zurich, and 1·4 in. at Skagen. Temperature rose to 70° at a few southern stations in England, but remained below that level in the Netherlands, Germany and the greater part of Austria. In southern Europe and Algeria readings above 80° were common; 86° at Cagliari and Madrid, 88° at San Fernando, 90° at Patras, 102° at Biskra, and 106° at Laghouat.



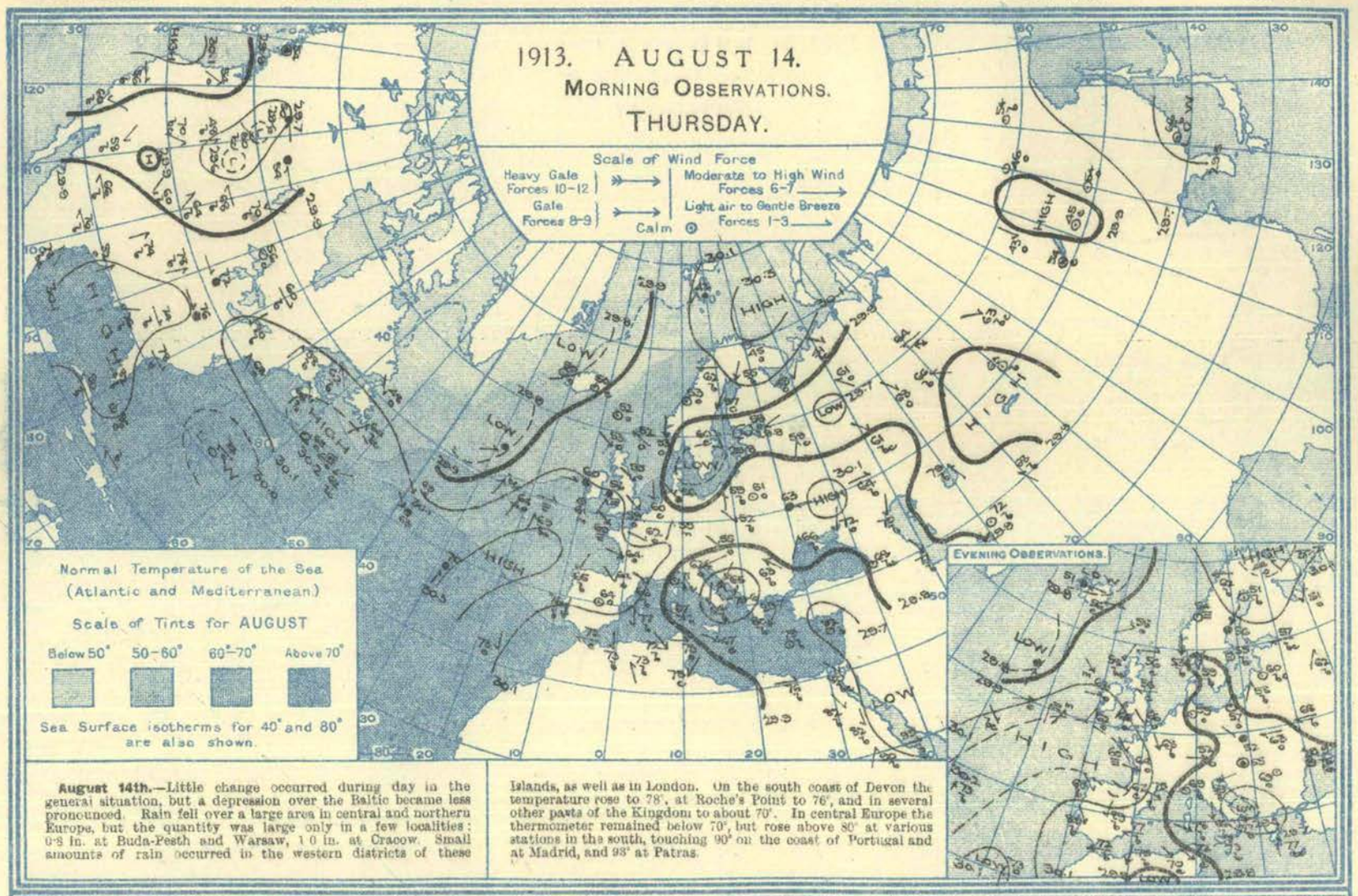
August 11th.—Shallow depressions over these Islands caused rain or passing showers in several localities; 0·7 in. at Gt. Yarmouth, and 1·5 in. at Scilly. Thunderstorms occurred in some parts of England. A considerable quantity of rain fell in France and Sweden, and smaller amounts in the Netherlands, Switzerland, and Russia. Temperature rose to 70° at several English stations, as well as at a few places in central Europe. Over a large area in the south the maximum readings were above 80°; 88° at Madrid. In the north of Africa 88° was recorded at Algiers, 104° at Tunis, and 109° at Biskra. In Scotland the minimum values were as low as 40°, but above 50° in nearly all parts of England and the central regions of the Continent, and above 60° in the southern countries.



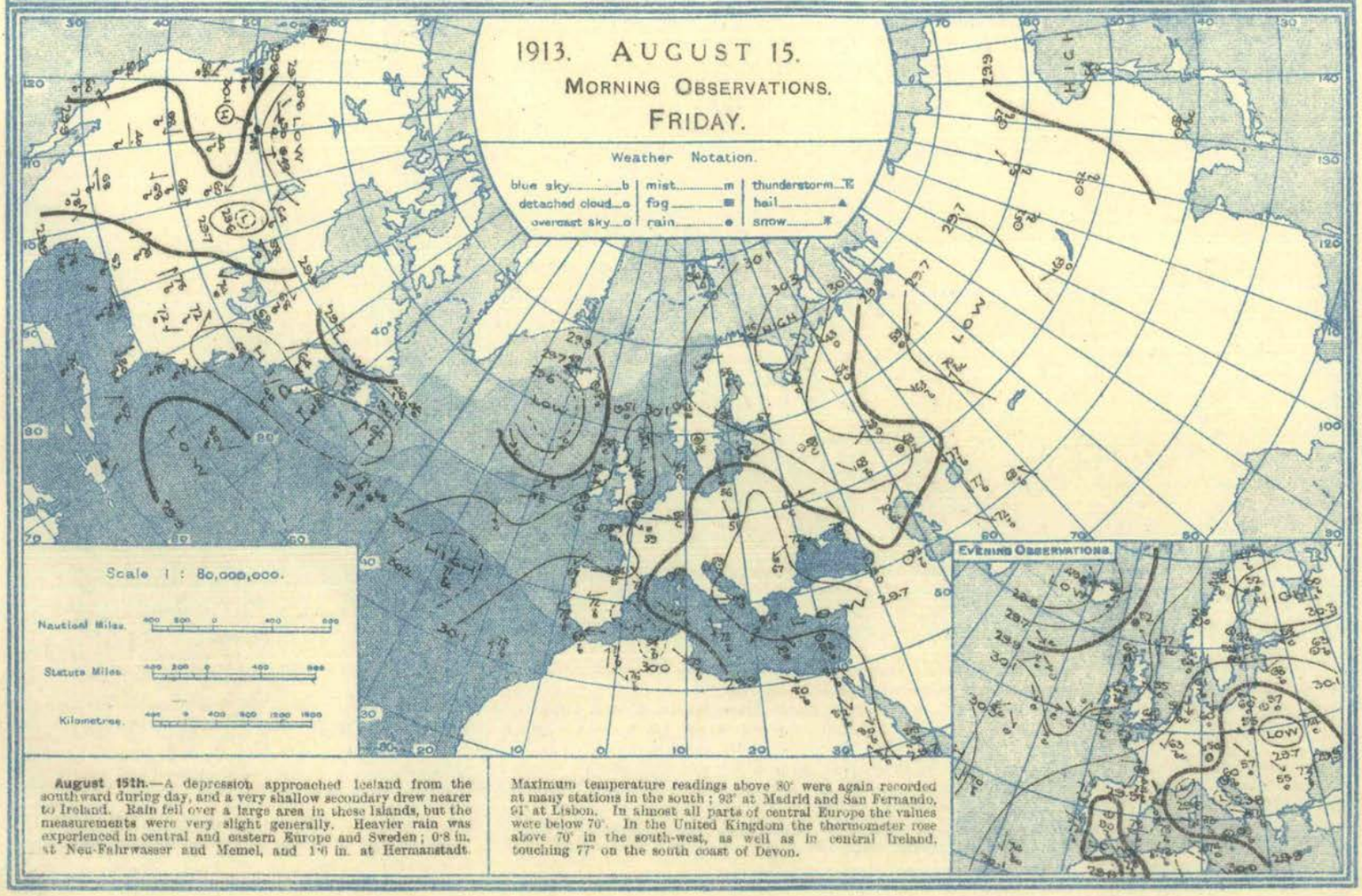
August 12th.—Pressure underwent little change in these Islands, but a decided decrease occurred in Iceland, and a brisk increase over central Russia. Rain fell in the west and north of the United Kingdom, the quantity being small. Various amounts of rain occurred over a very large area in France, central and northern Europe, 0·6 in. at Stockholm, and 0·7 in. at Zurich and Lyons. Temperature rose to about 90° at some places in the extreme south of Europe and above 100° in central Algeria. In central Europe and France most of the maxima were below 75 and in places below 70°. In England the thermometer touched 70° at a few southern stations, but remained below 65° over a large portion of the Kingdom.



August 13th.—Very little change occurred in the pressure distribution over these Islands and western Europe during day. Slight quantities of rain were experienced in the west and north of the United Kingdom and in the north of France, and more considerable falls in Denmark, Sweden, the Netherlands, central Europe, and northern Italy 0·9 in. at Hernösand, 0·8 in. at Lesina, and 1·2 in. at Pesaro. The thermometer rose to about 70° in several parts of southern England, but remained below 65° in the Netherlands and at some stations in the north-east of France. Over the Mediterranean region readings above 80° were common; 86° at Bucharest, 87° at Palermo, 88° at Athens, and 91° at Brindisi and Patras.

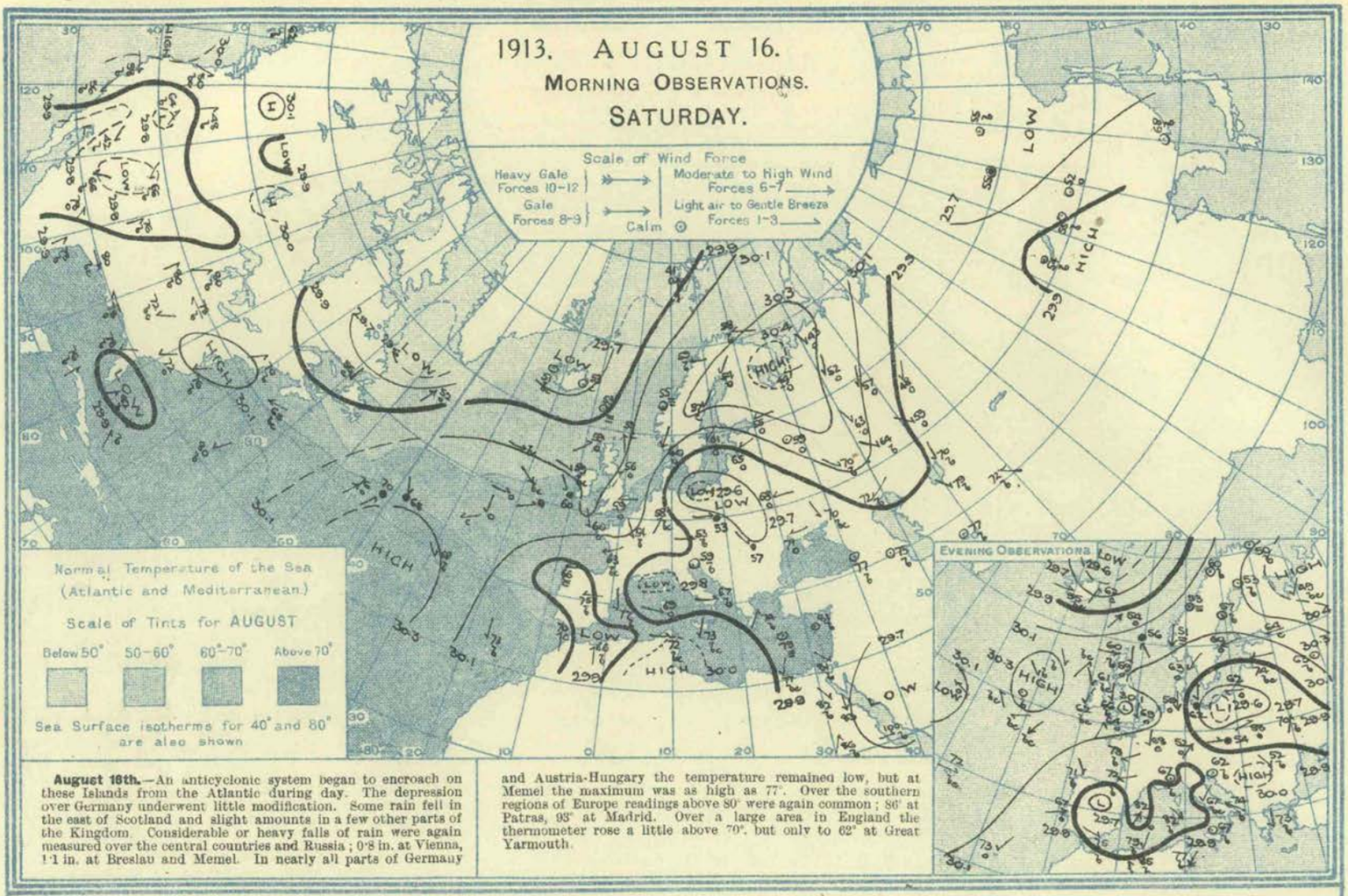


August 14th.—Little change occurred during day in the general situation, but a depression over the Baltic became less pronounced. Rain fell over a large area in central and northern Europe, but the quantity was large only in a few localities: 0·8 in. at Buda-Pesth and Warsaw, 1·0 in. at Cracow. Small amounts of rain occurred in the western districts of these Islands, as well as in London. On the south coast of Devon the temperature rose to 78°, at Roche's Point to 76°, and in several other parts of the Kingdom to about 70°. In central Europe the thermometer remained below 70°, but rose above 80° at various stations in the south, touching 90° on the coast of Portugal and at Madrid, and 93° at Patras.



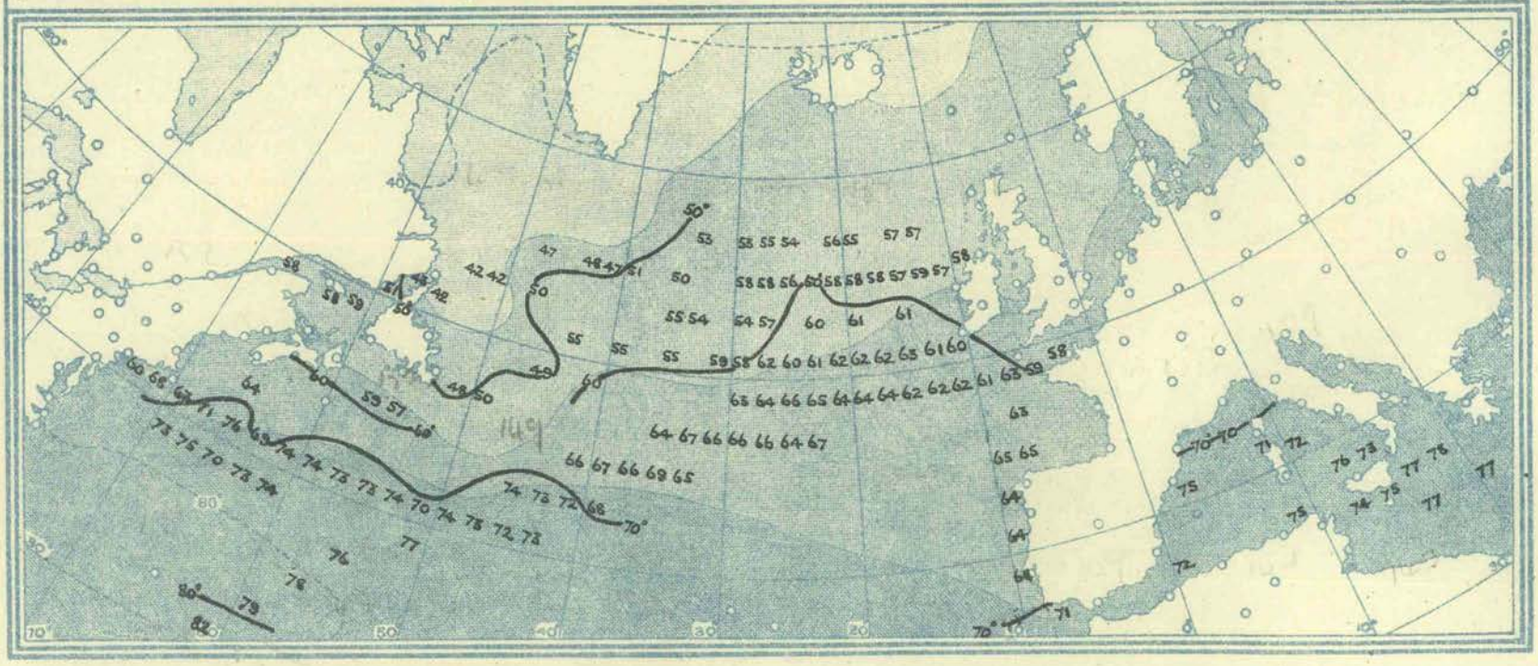
August 15th.—A depression approached Iceland from the southward during day, and a very shallow secondary drew nearer to Ireland. Rain fell over a large area in these Islands, but the measurements were very slight generally. Heavier rain was experienced in central and eastern Europe and Sweden; 0·8 in. at Neu-Fahrwasser and Memel, and 1·6 in. at Hermanstadt.

Maximum temperature readings above 80° were again recorded at many stations in the south; 93° at Madrid and San Fernando, 91° at Lisbon. In almost all parts of central Europe the values were below 70°. In the United Kingdom the thermometer rose above 70° in the south-west, as well as in central Ireland, touching 77° on the south coast of Devon.



August 16th.—An anticyclonic system began to encroach on these Islands from the Atlantic during day. The depression over Germany underwent little modification. Some rain fell in the east of Scotland and slight amounts in a few other parts of the Kingdom. Considerable or heavy falls of rain were again measured over the central countries and Russia; 0·8 in. at Vienna, 1·1 in. at Breslau and Memel. In nearly all parts of Germany and Austria-Hungary the temperature remained low, but at Memel the maximum was as high as 77°. Over the southern regions of Europe readings above 80° were again common; 86° at Patras, 93° at Madrid. Over a large area in England the thermometer rose a little above 70°, but only to 62° at Great Yarmouth.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 16TH AUGUST, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain and in the Azores. These times refer to Greenwich Mean Time.

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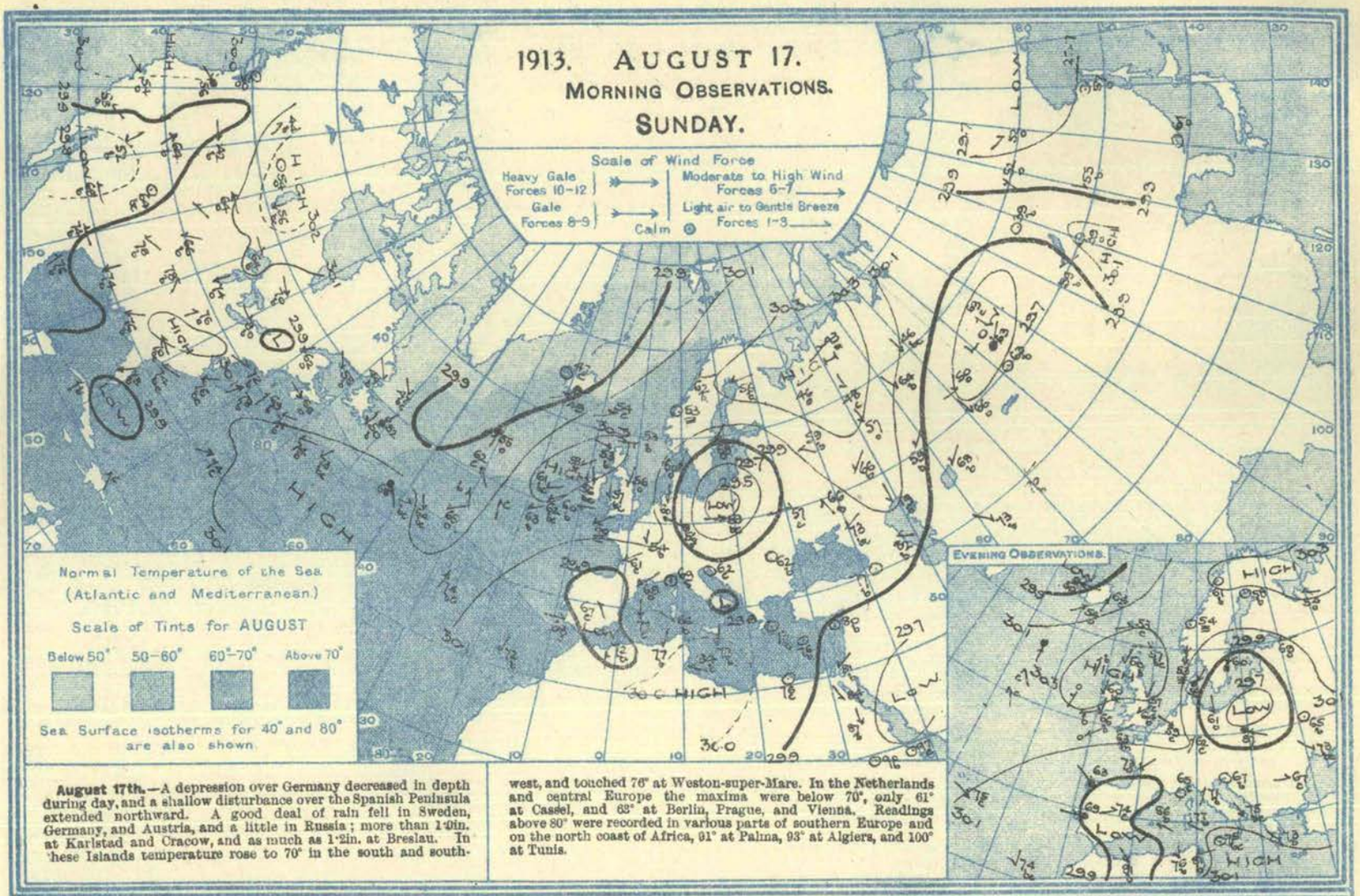
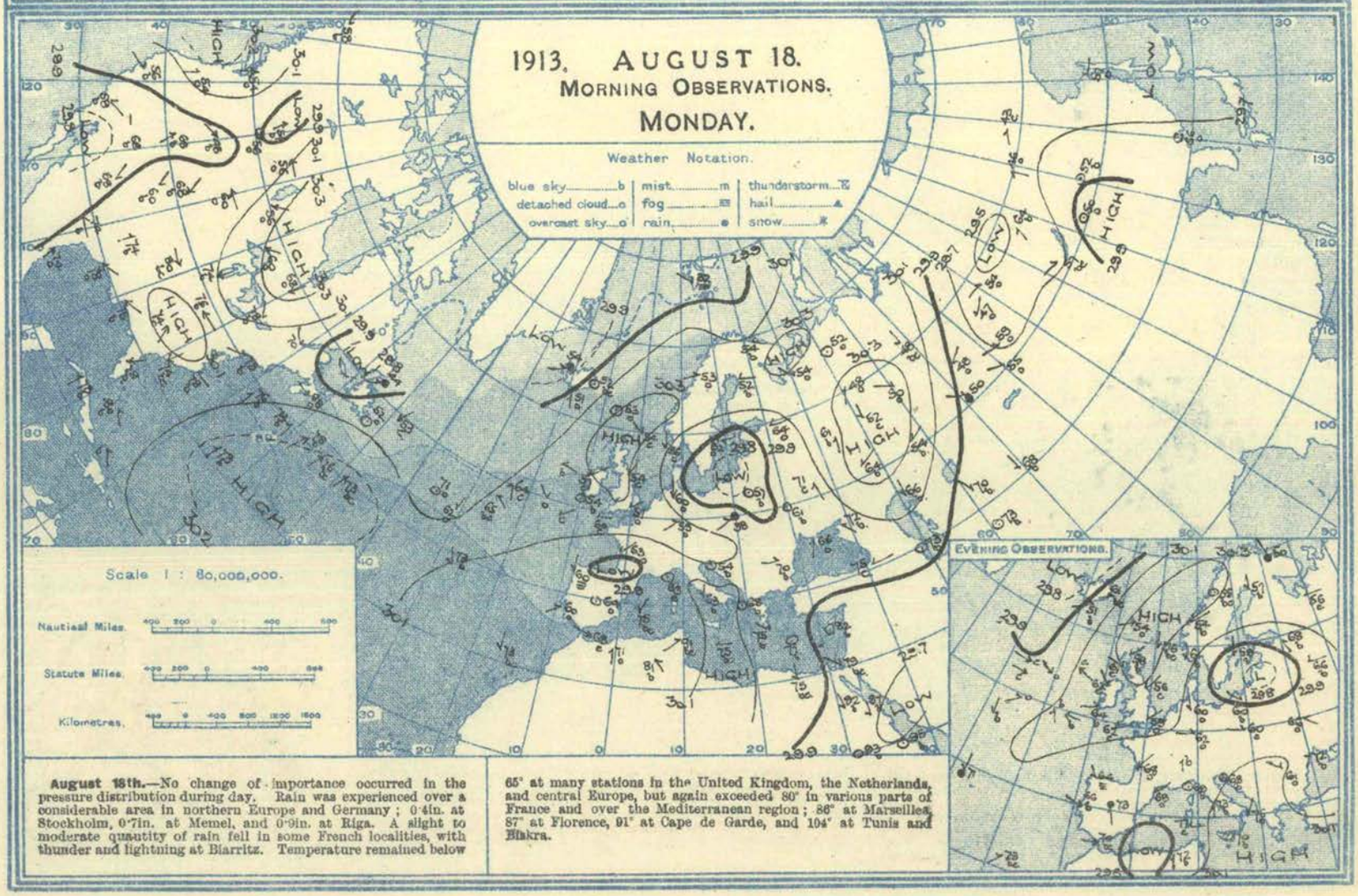
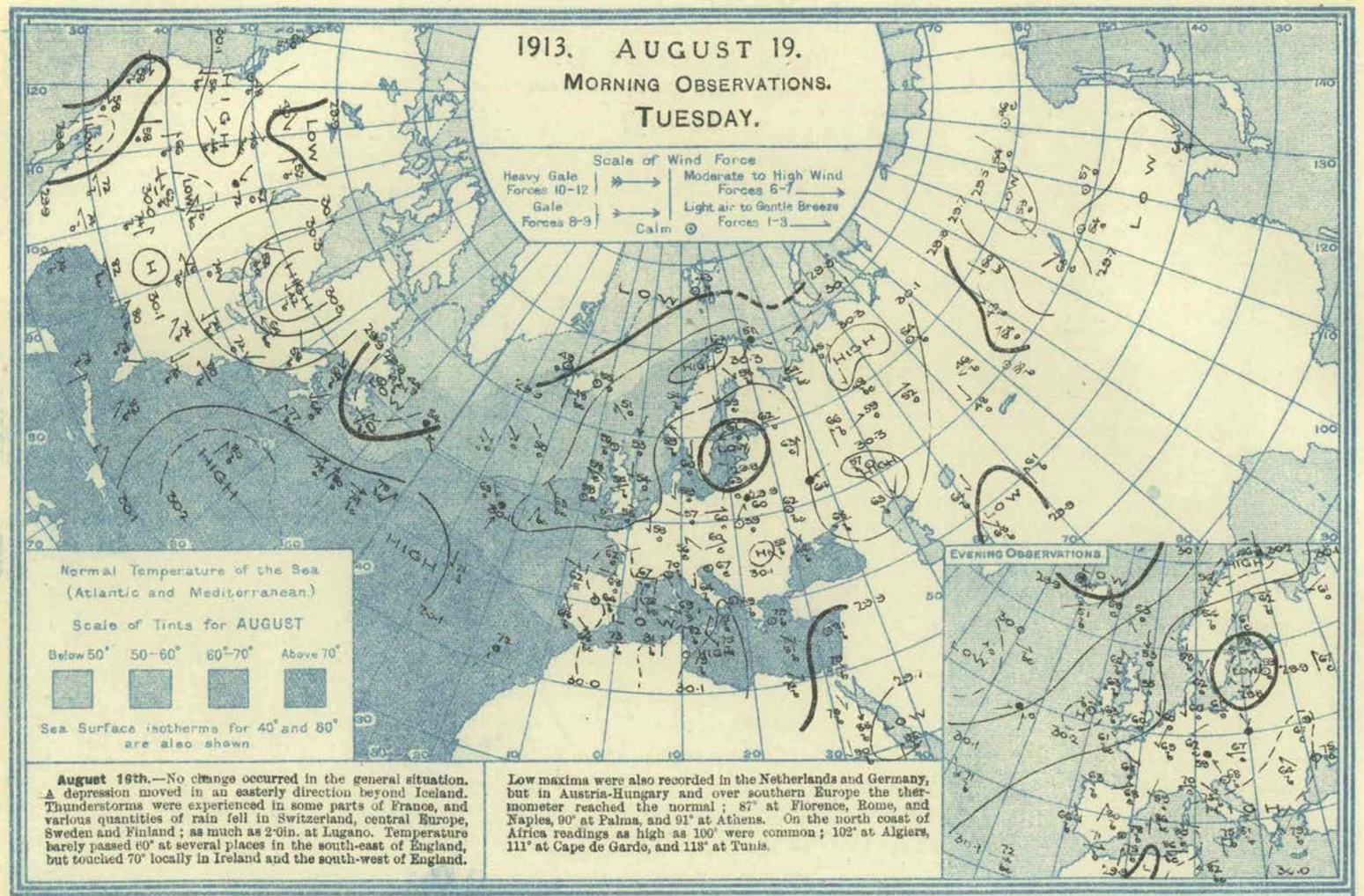
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40° and 80° are shown by blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



August 17th.—A depression over Germany decreased in depth during day, and a shallow disturbance over the Spanish Peninsula extended northward. A good deal of rain fell in Sweden, Germany, and Austria, and a little in Russia; more than 1·0in. at Karlstad and Cracow, and as much as 1·2in. at Breslau. In these Islands temperature rose to 70° in the south and south-west, and touched 76° at Weston-super-Mare. In the Netherlands and central Europe the maxima were below 70°, only 61° at Cassel, and 62° at Berlin, Prague, and Vienna. Readings above 80° were recorded in various parts of southern Europe and on the north coast of Africa, 91° at Palma, 93° at Algiers, and 100° at Tunis.

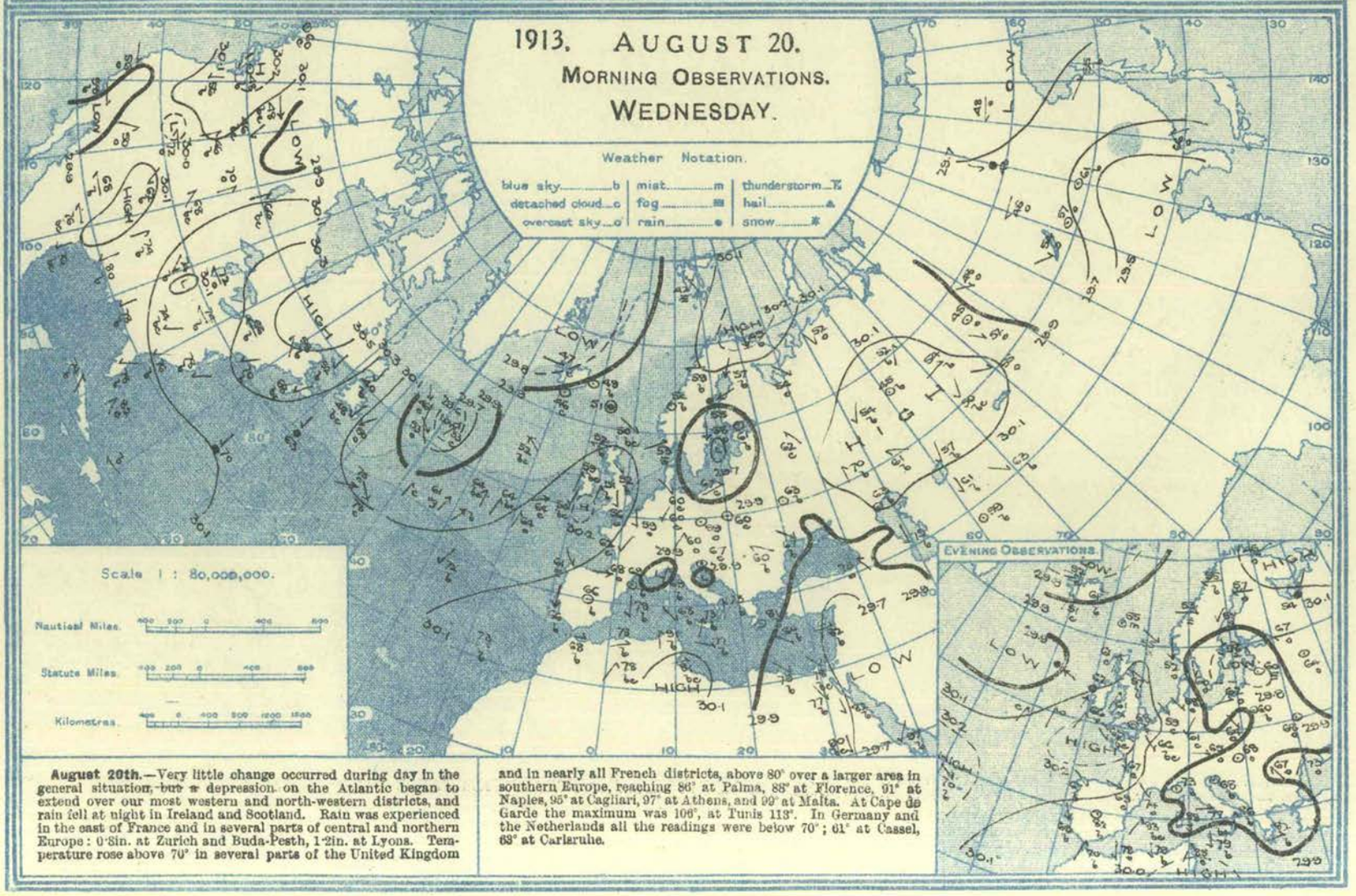


August 18th.—No change of importance occurred in the pressure distribution during day. Rain was experienced over a considerable area in northern Europe and Germany; 0·4in. at Stockholm, 0·7in. at Memel, and 0·9in. at Riga. A slight to moderate quantity of rain fell in some French localities, with thunder and lightning at Biarritz. Temperature remained below 65° at many stations in the United Kingdom, the Netherlands, and central Europe, but again exceeded 80° in various parts of France and over the Mediterranean region; 86° at Marseilles, 87° at Florence, 91° at Cape de Garde, and 104° at Tunis and Biskra.

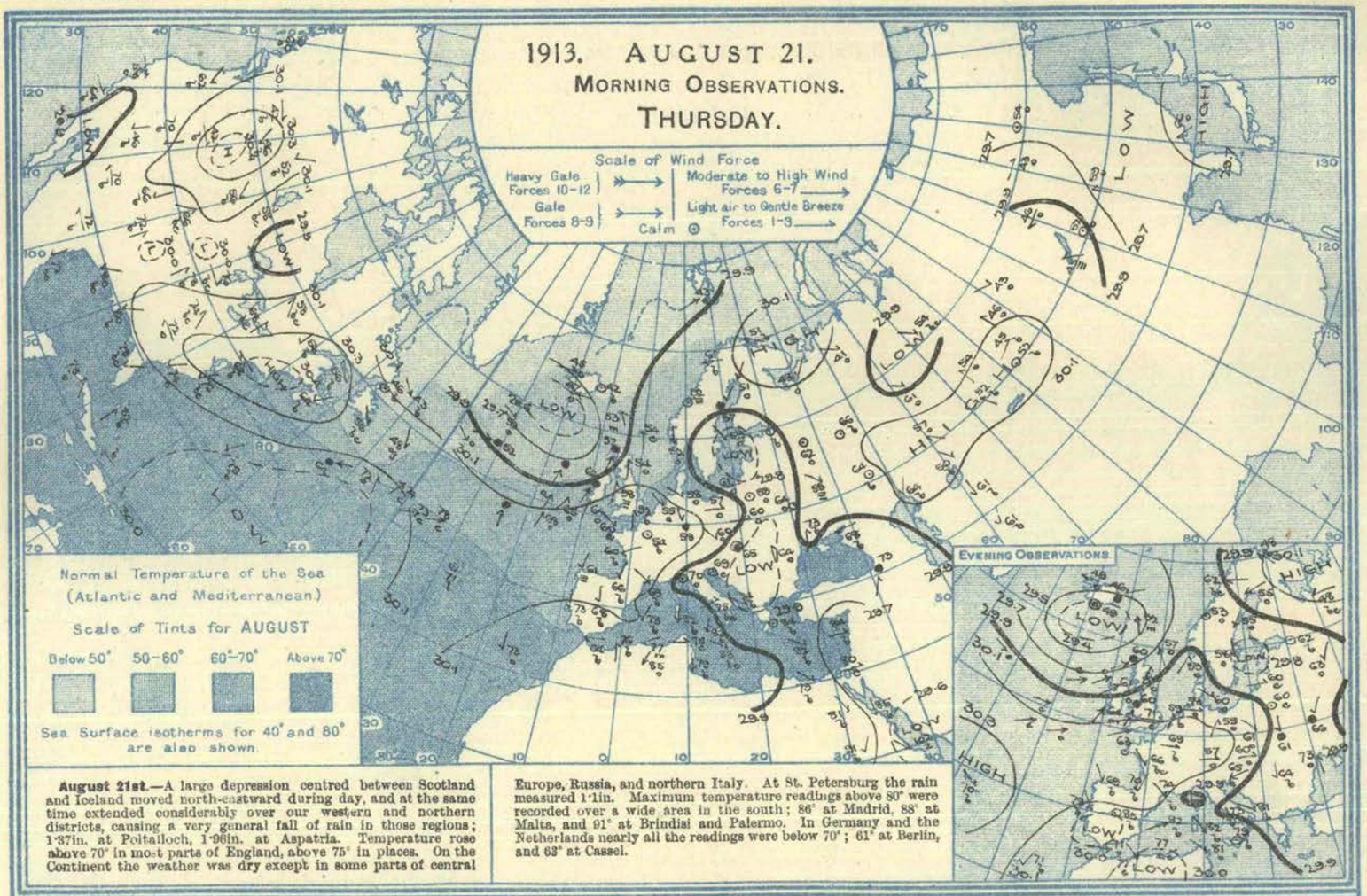


August 19th.—No change occurred in the general situation. A depression moved in an easterly direction beyond Iceland. Thunderstorms were experienced in some parts of France, and various quantities of rain fell in Switzerland, central Europe, Sweden and Finland; as much as 2·0in. at Lugano. Temperature barely passed 60° at several places in the south-east of England, but touched 70° locally in Ireland and the south-west of England.

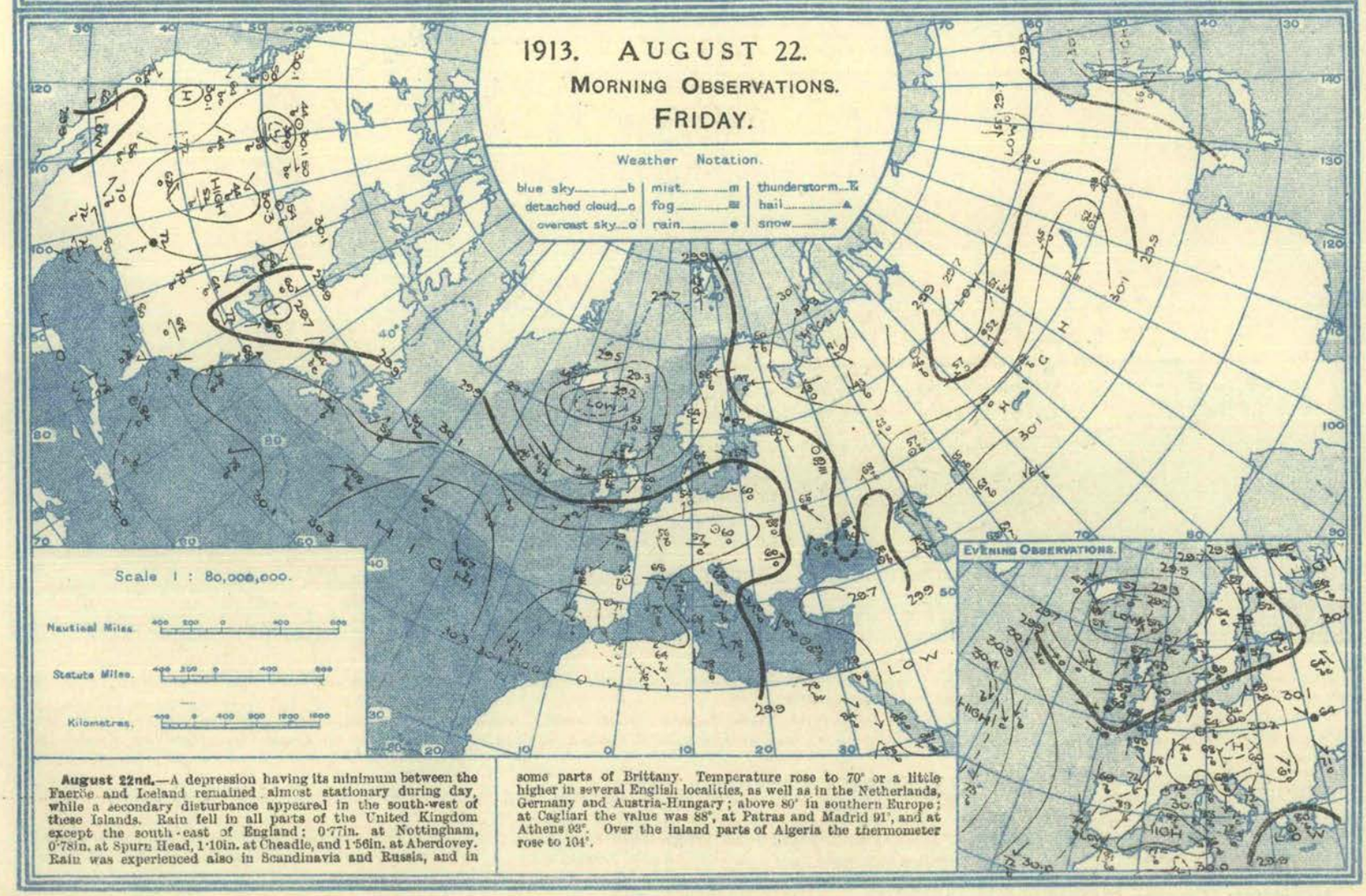
Low maxima were also recorded in the Netherlands and Germany, but in Austria-Hungary and over southern Europe the thermometer reached the normal; 87° at Florence, Rome, and Naples, 90° at Palma, and 91° at Athens. On the north coast of Africa readings as high as 100° were common; 102° at Algiers, 111° at Cape de Garde, and 118° at Tunis.



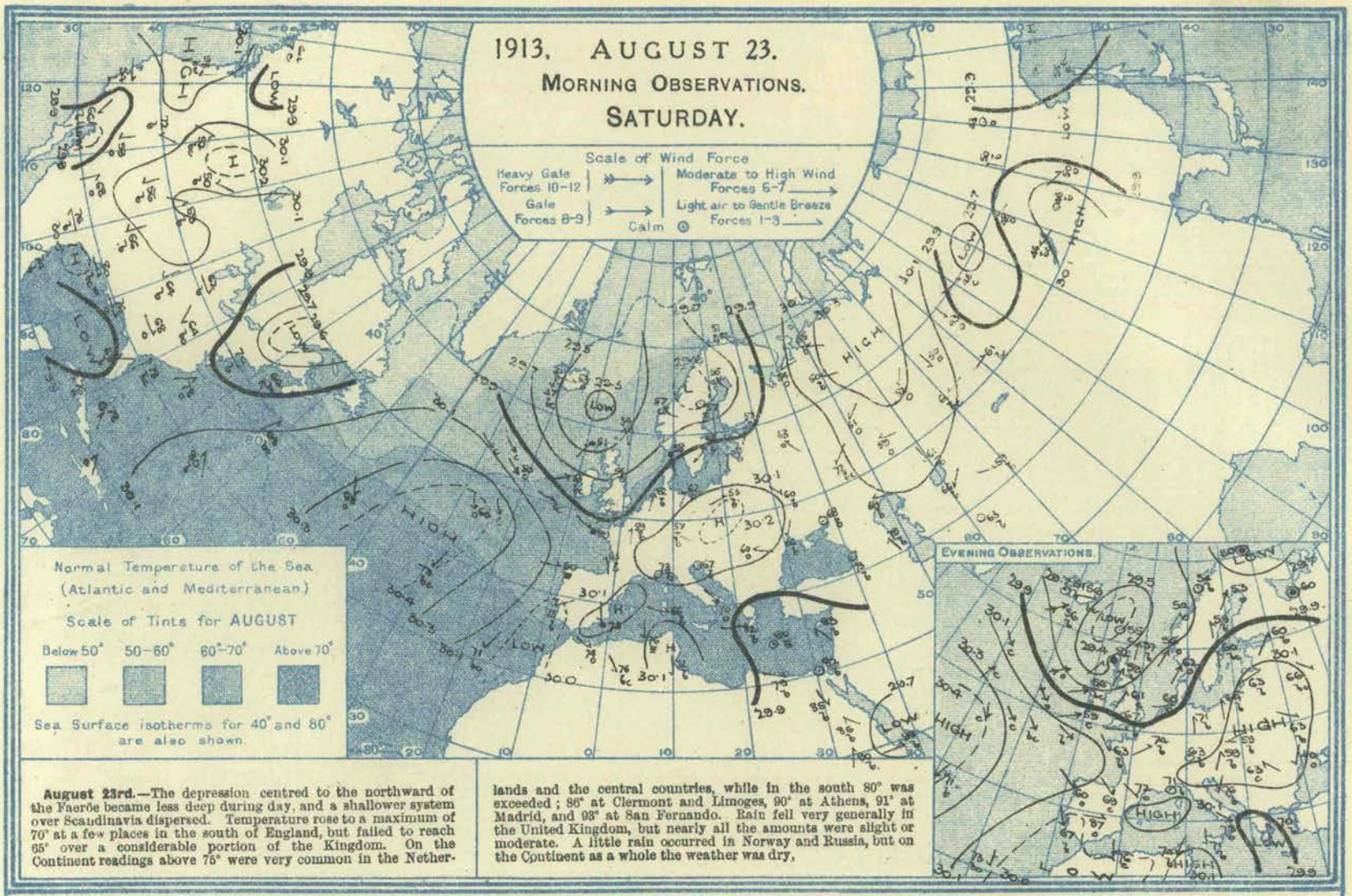
August 20th.—Very little change occurred during day in the general situation, but a depression on the Atlantic began to extend over our most western and north-western districts, and rain fell at night in Ireland and Scotland. Rain was experienced in the east of France and in several parts of central and northern Europe: 0·8in. at Zurich and Buda-Pesth, 1·2in. at Lyons. Temperature rose above 70° in several parts of the United Kingdom and in nearly all French districts, above 80° over a larger area in southern Europe, reaching 86° at Palma, 88° at Florence, 91° at Naples, 95° at Cagliari, 97° at Athens, and 99° at Malta. At Cape de Garde the maximum was 106°, at Tunis 113°. In Germany and the Netherlands all the readings were below 70°; 61° at Cassel, 63° at Carlsruhe.



August 21st.—A large depression centred between Scotland and Iceland moved north-eastward during day, and at the same time extended considerably over our western and northern districts, causing a very general fall of rain in those regions; 1·37in. at Poltalloch, 1·06in. at Aspatria. Temperature rose above 70° in most parts of England, above 75° in places. On the Continent the weather was dry except in some parts of central Europe, Russia, and northern Italy. At St. Petersburg the rain measured 1·11in. Maximum temperature readings above 80° were recorded over a wide area in the south; 86° at Madrid, 88° at Malta, and 91° at Brindisi and Palermo. In Germany and the Netherlands nearly all the readings were below 70°; 61° at Berlin, and 63° at Cassel.

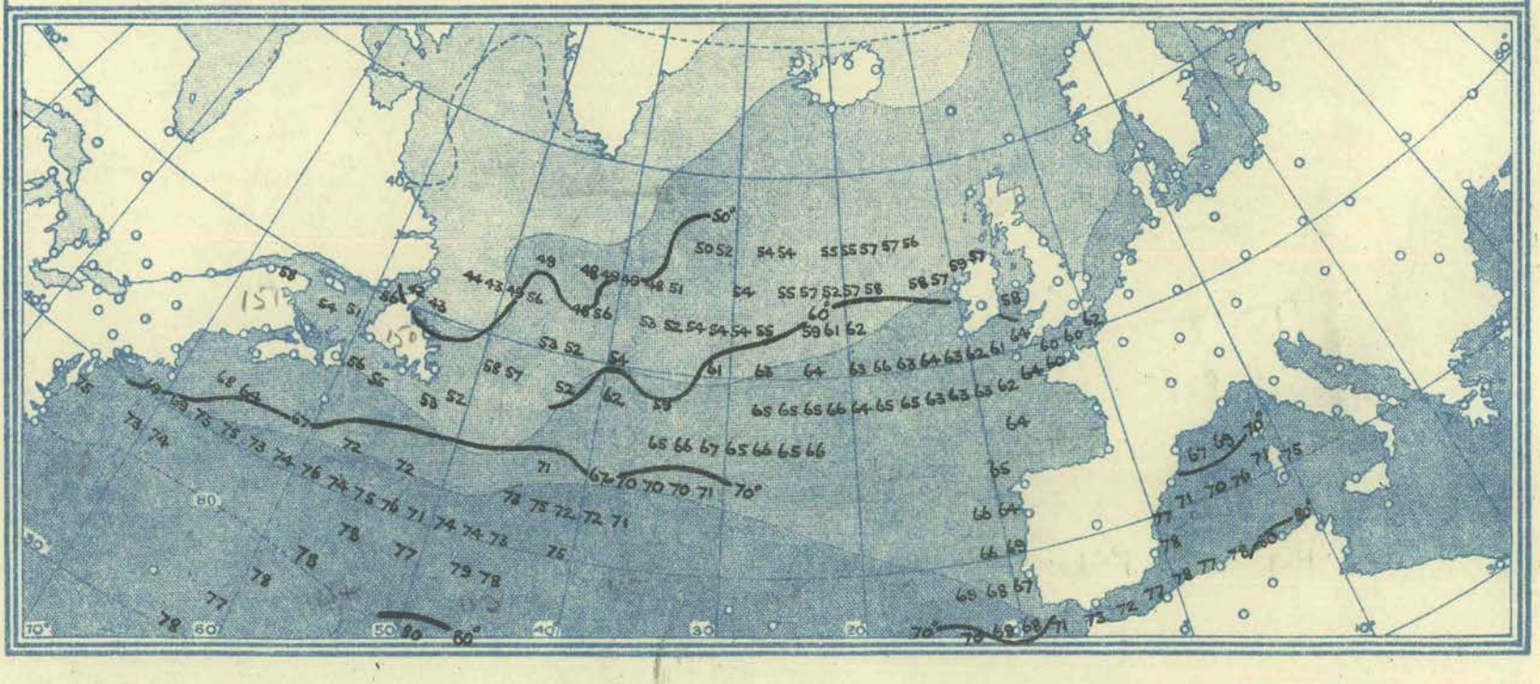


August 22nd.—A depression having its minimum between the Faeröe and Iceland remained almost stationary during day, while a secondary disturbance appeared in the south-west of these Islands. Rain fell in all parts of the United Kingdom except the south-east of England: 0·77in. at Nottingham, 0·78in. at Spurn Head, 1·10in. at Cheadle, and 1·56in. at Aberdovey. Rain was experienced also in Scandinavia and Russia, and in some parts of Brittany. Temperature rose to 70° or a little higher in several English localities, as well as in the Netherlands, Germany and Austria-Hungary; above 80° in southern Europe; at Cagliari the value was 88°, at Patras and Madrid 91°, and at Athens 93°. Over the inland parts of Algeria the thermometer rose to 104°.



August 23rd.—The depression centred to the northward of the Faeröe became less deep during day, and a shallower system over Scandinavia dispersed. Temperature rose to a maximum of 70° at a few places in the south of England, but failed to reach 65° over a considerable portion of the Kingdom. On the Continent readings above 75° were very common in the Netherlands and the central countries, while in the south 80° was exceeded; 86° at Clermont and Limoges, 90° at Athens, 91° at Madrid, and 93° at San Fernando. Rain fell very generally in the United Kingdom, but nearly all the amounts were slight or moderate. A little rain occurred in Norway and Russia, but on the Continent as a whole the weather was dry.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 23RD AUGUST, 1913.



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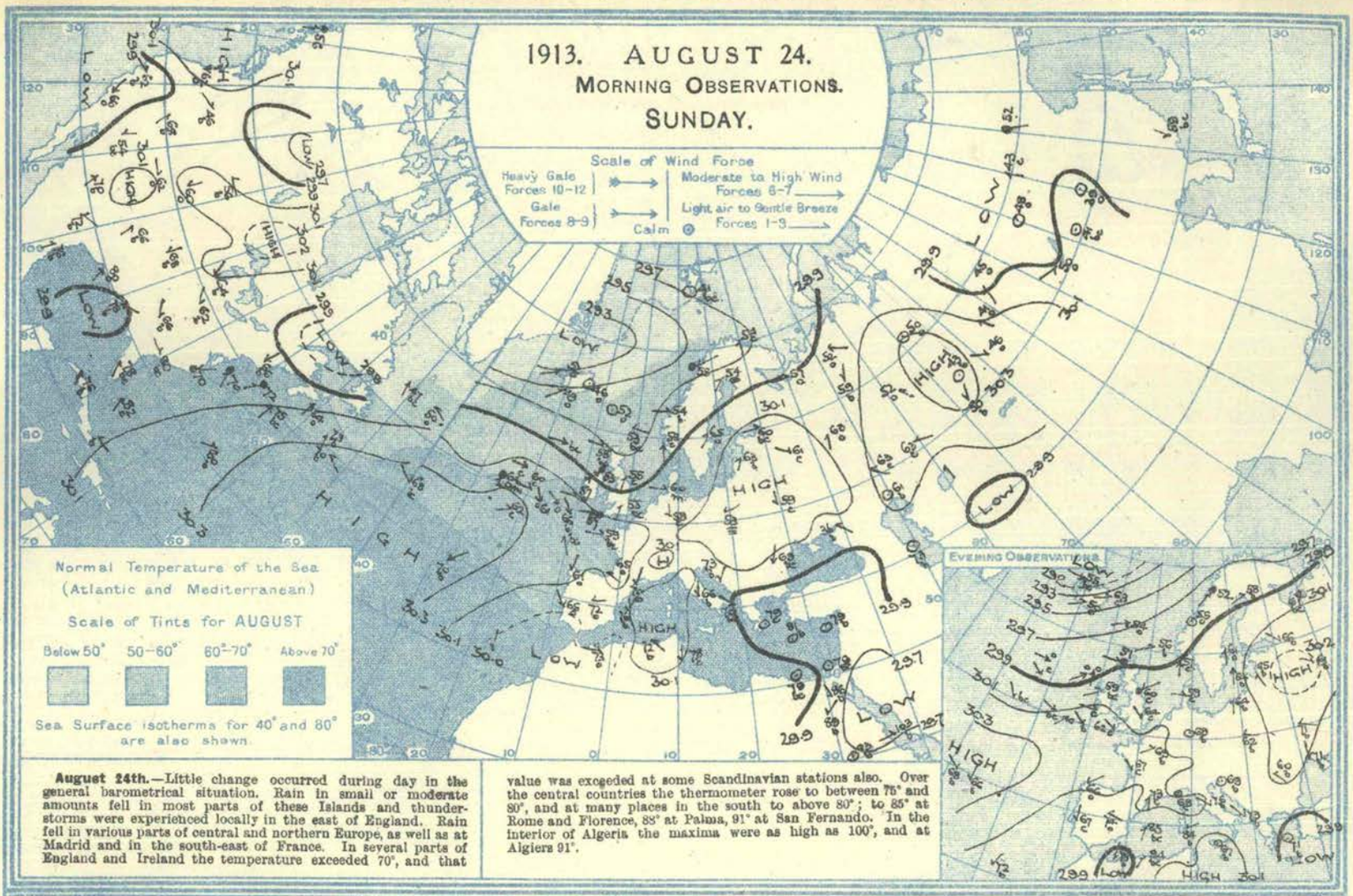
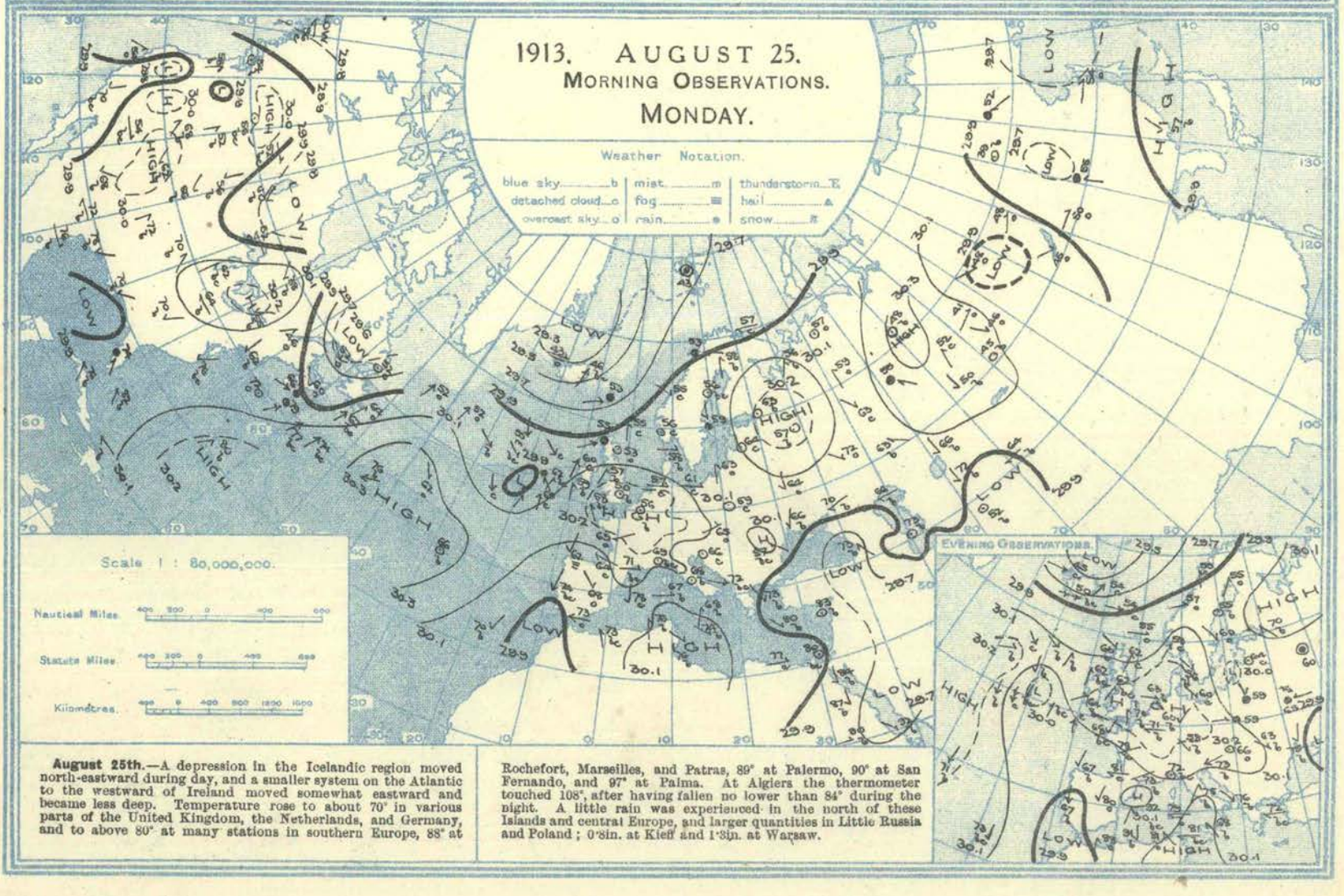
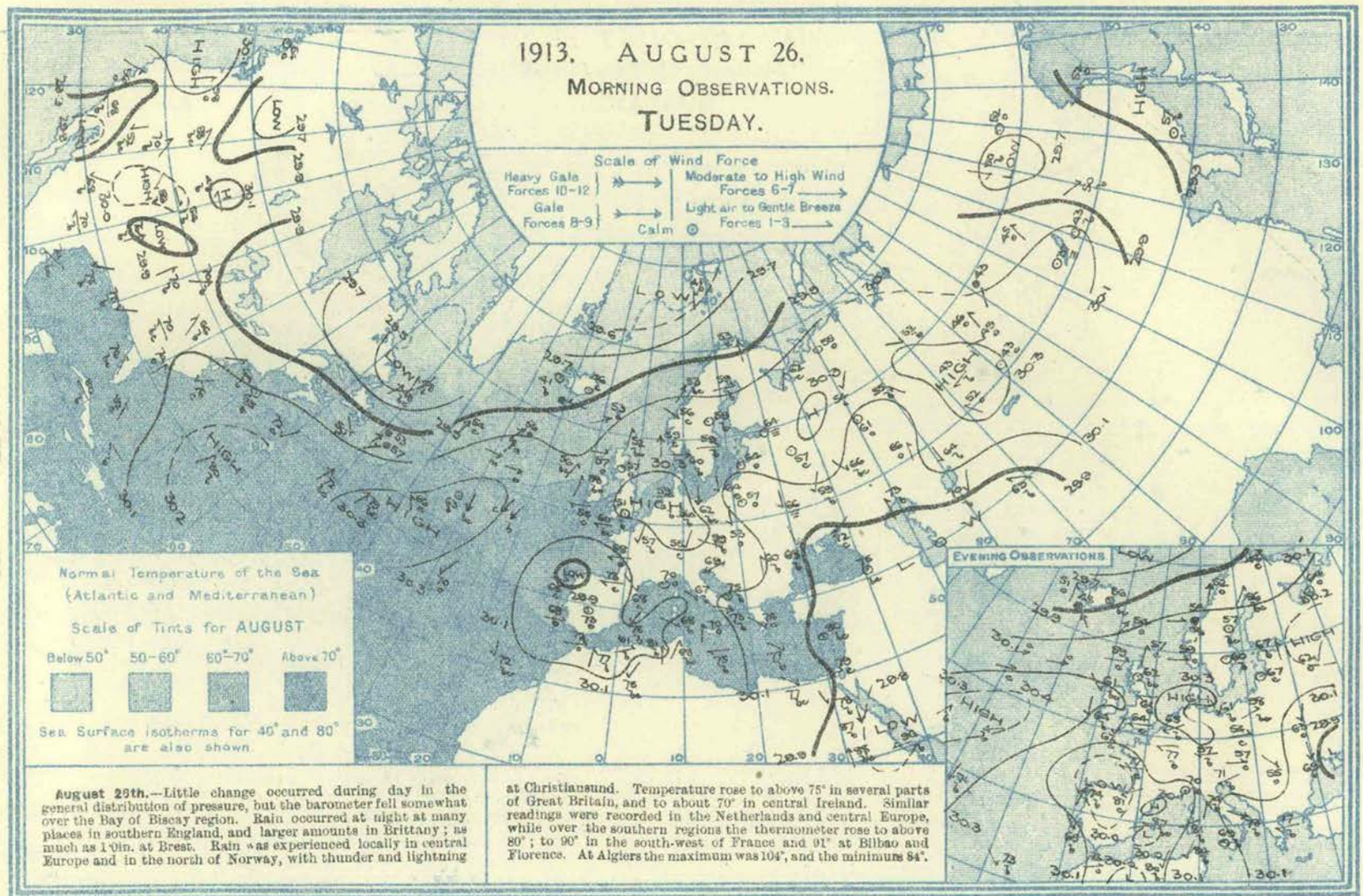


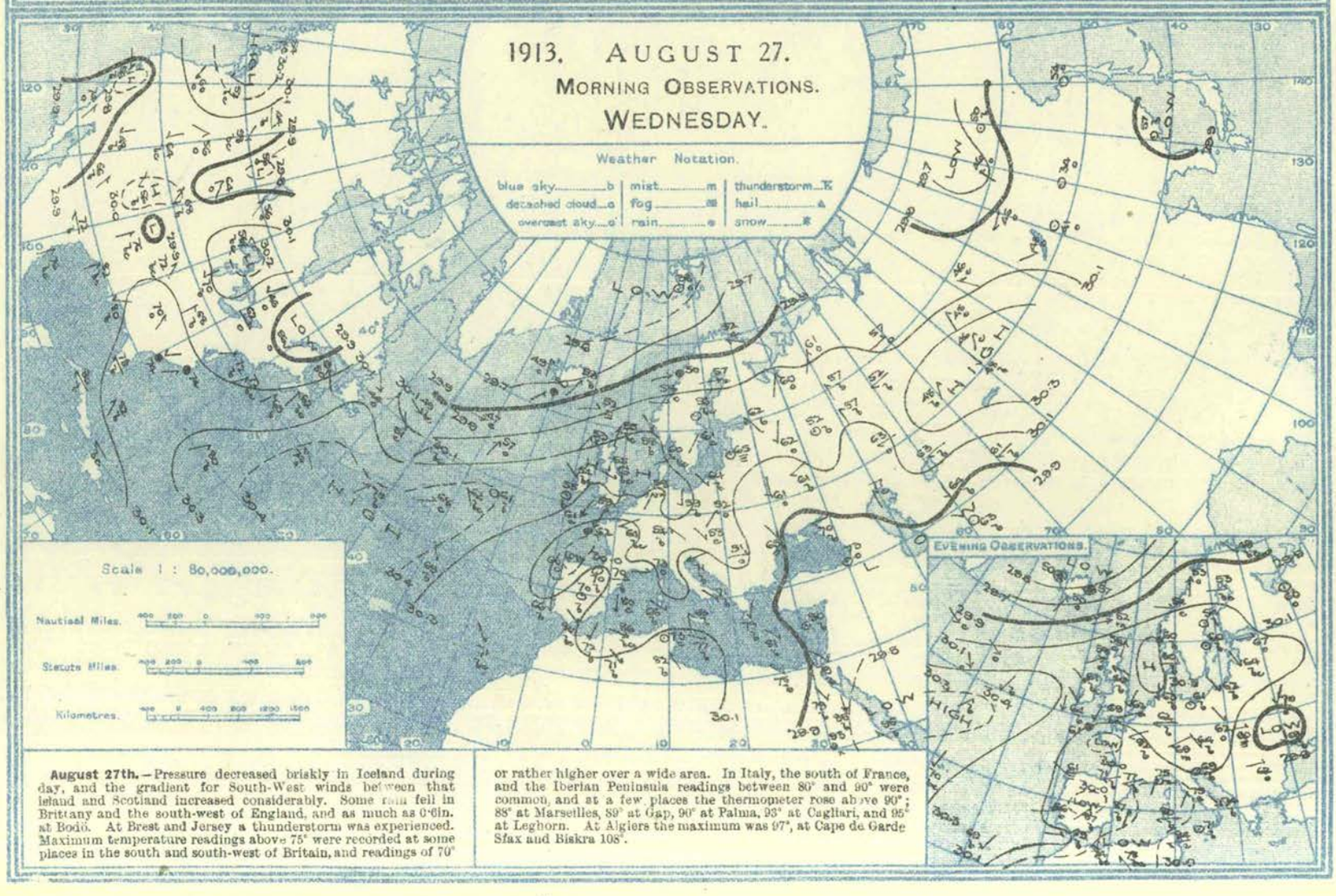
August 24th.—Little change occurred during day in the general barometrical situation. Rain in small or moderate amounts fell in most parts of these Islands and thunderstorms were experienced locally in the east of England. Rain fell in various parts of central and northern Europe, as well as at Madrid and in the south-east of France. In several parts of England and Ireland the temperature exceeded 70°, and that value was exceeded at some Scandinavian stations also. Over the central countries the thermometer rose to between 75° and 80°, and at many places in the south to above 80°; to 85° at Rome and Florence, 88° at Palma, 91° at San Fernando. In the interior of Algeria the maxima were as high as 100°, and at Algiers 91°.



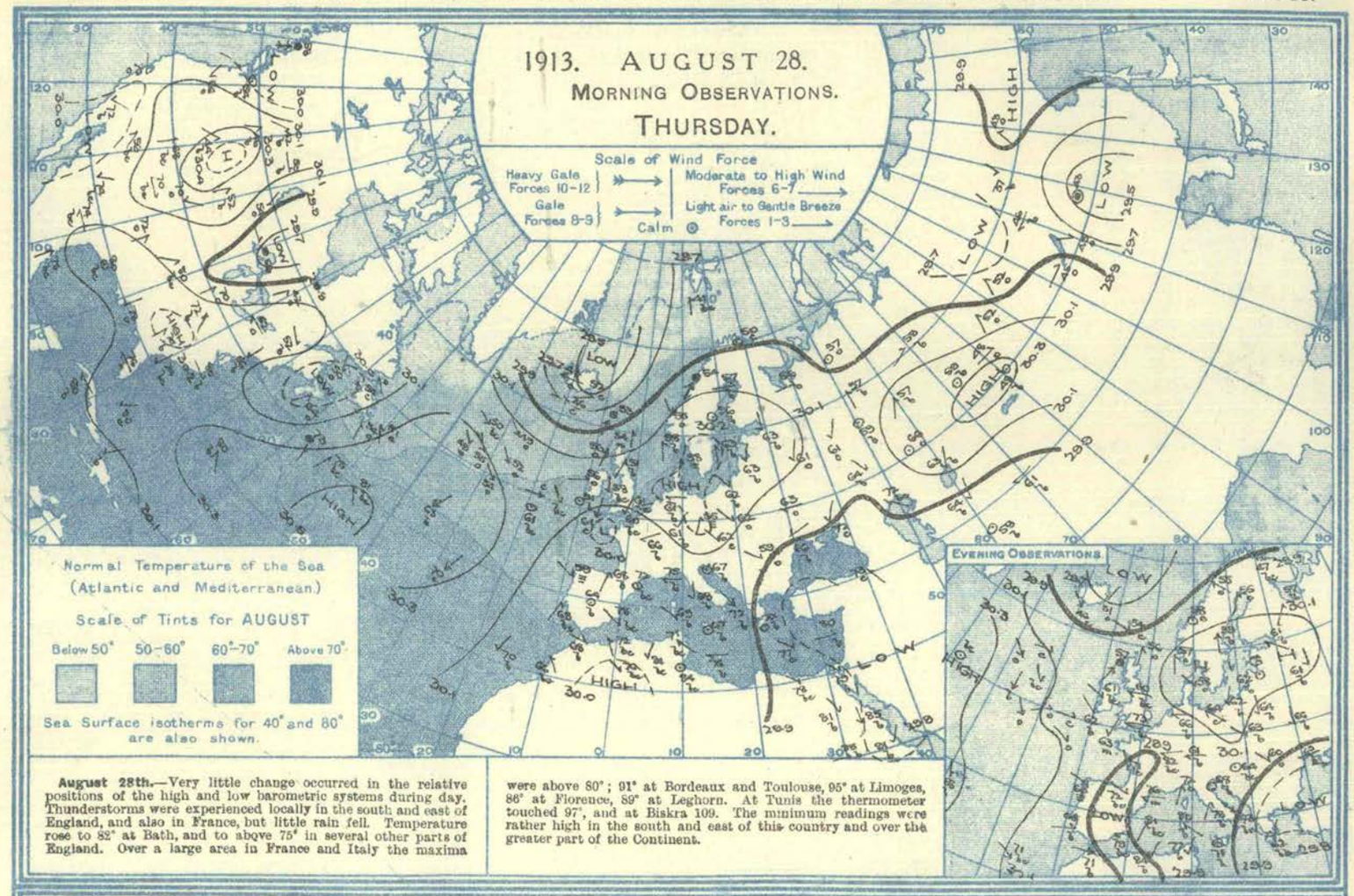
August 25th.—A depression in the Icelandic region moved north-eastward during day, and a smaller system on the Atlantic to the westward of Ireland moved somewhat eastward and became less deep. Temperature rose to about 70° in various parts of the United Kingdom, the Netherlands, and Germany, and to above 80° at many stations in southern Europe, 88° at Rochefort, Marseilles, and Patras, 89° at Palermo, 90° at San Fernando, and 97° at Palma. At Algiers the thermometer touched 108°, after having fallen no lower than 84° during the night. A little rain was experienced in the north of these Islands and central Europe, and larger quantities in Little Russia and Poland; 0·8in. at Kieff and 1·3in. at Warsaw.



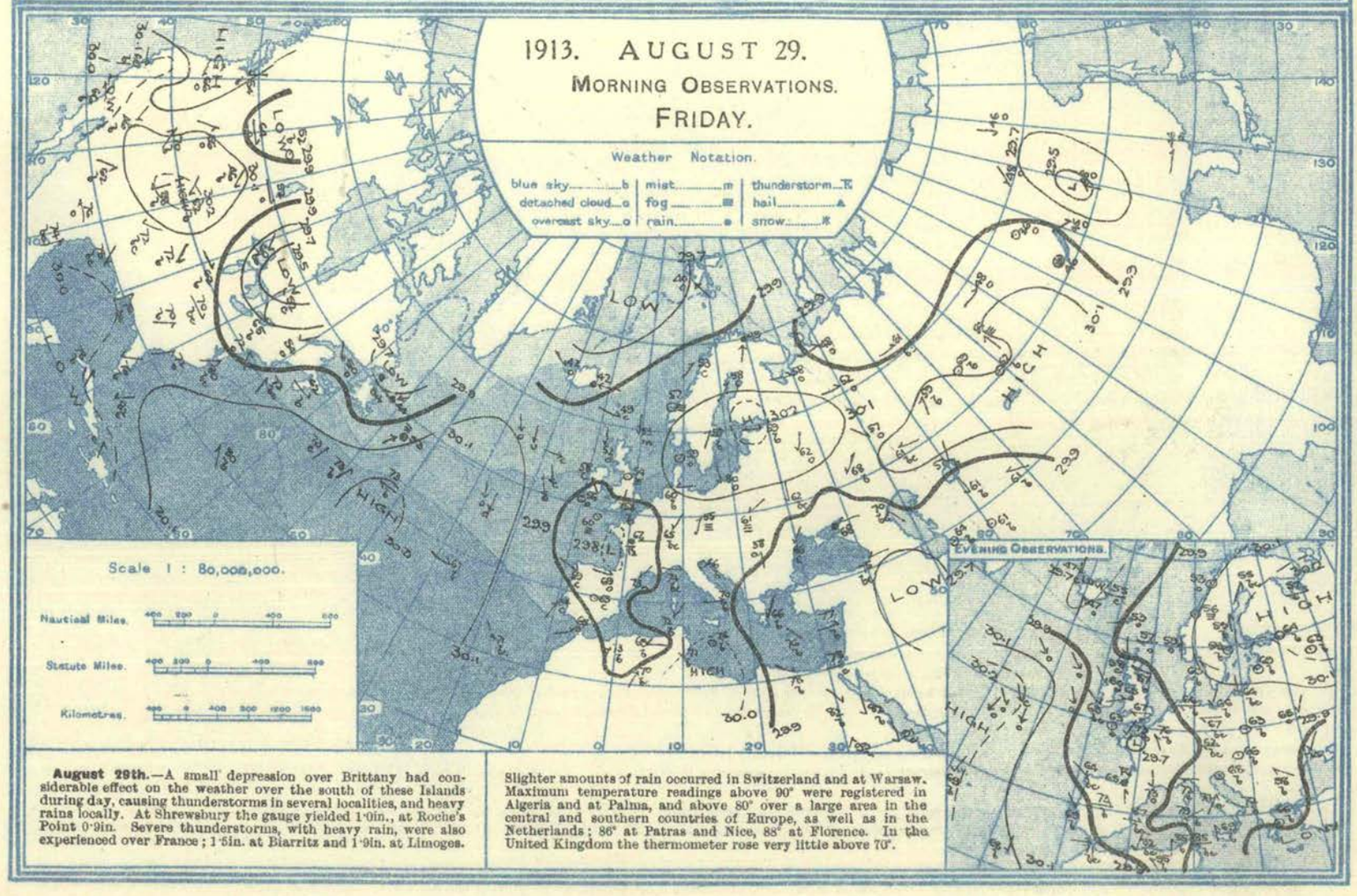
August 26th.—Little change occurred during day in the general distribution of pressure, but the barometer fell somewhat over the Bay of Biscay region. Rain occurred at night at many places in southern England, and larger amounts in Brittany; as much as 1·0in. at Brest. Rain was experienced locally in central Europe and in the north of Norway, with thunder and lightning at Christiansund. Temperature rose to above 75° in several parts of Great Britain, and to about 70° in central Ireland. Similar readings were recorded in the Netherlands and central Europe, while over the southern regions the thermometer rose to above 80°; to 90° in the south-west of France and 91° at Bilbao and Florence. At Algiers the maximum was 104°, and the minimum 84°.



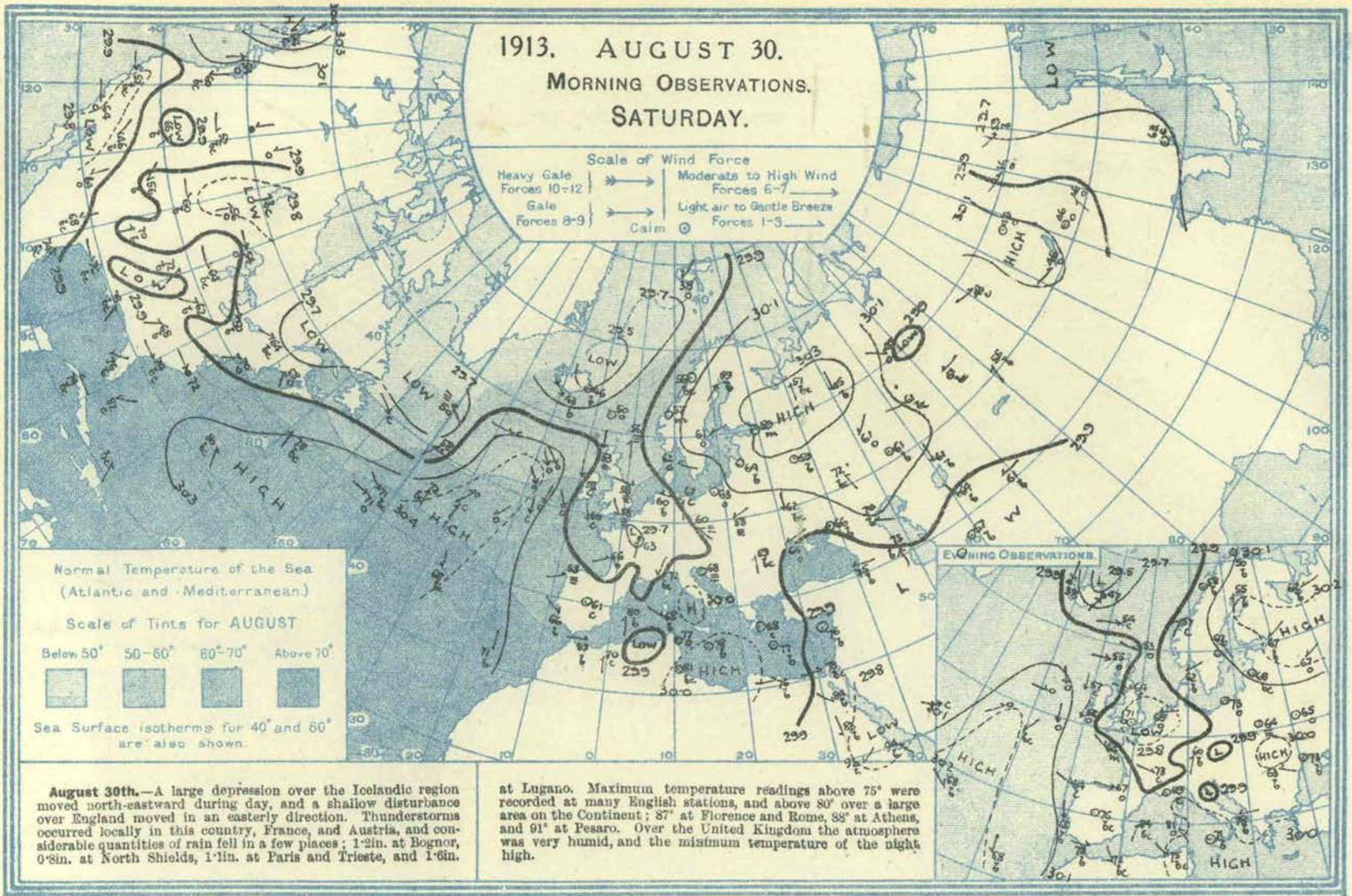
August 27th.—Pressure decreased briskly in Iceland during day, and the gradient for South-West winds between that Island and Scotland increased considerably. Some rain fell in Brittany and the south-west of England, and as much as 0·6in. at Bodö. At Brest and Jersey a thunderstorm was experienced. Maximum temperature readings above 75° were recorded at some places in the south and south-west of Britain, and readings of 70° or rather higher over a wide area. In Italy, the south of France, and the Iberian Peninsula readings between 86° and 90° were common, and at a few places the thermometer rose above 90°; 88° at Marseilles, 89° at Gap, 90° at Palma, 93° at Cagliari, and 95° at Leghorn. At Algiers the maximum was 97°, at Cape de Garde Sfax and Biskra 108°.



August 28th.—Very little change occurred in the relative positions of the high and low barometric systems during day. Thunderstorms were experienced locally in the south and east of England, and also in France, but little rain fell. Temperature rose to 82° at Bath, and to above 75° in several other parts of England. Over a large area in France and Italy the maxima were above 80°; 91° at Bordeaux and Toulouse, 95° at Limoges, 86° at Florence, 89° at Leghorn. At Tunis the thermometer touched 97°, and at Biskra 109. The minimum readings were rather high in the south and east of this country and over the greater part of the Continent.

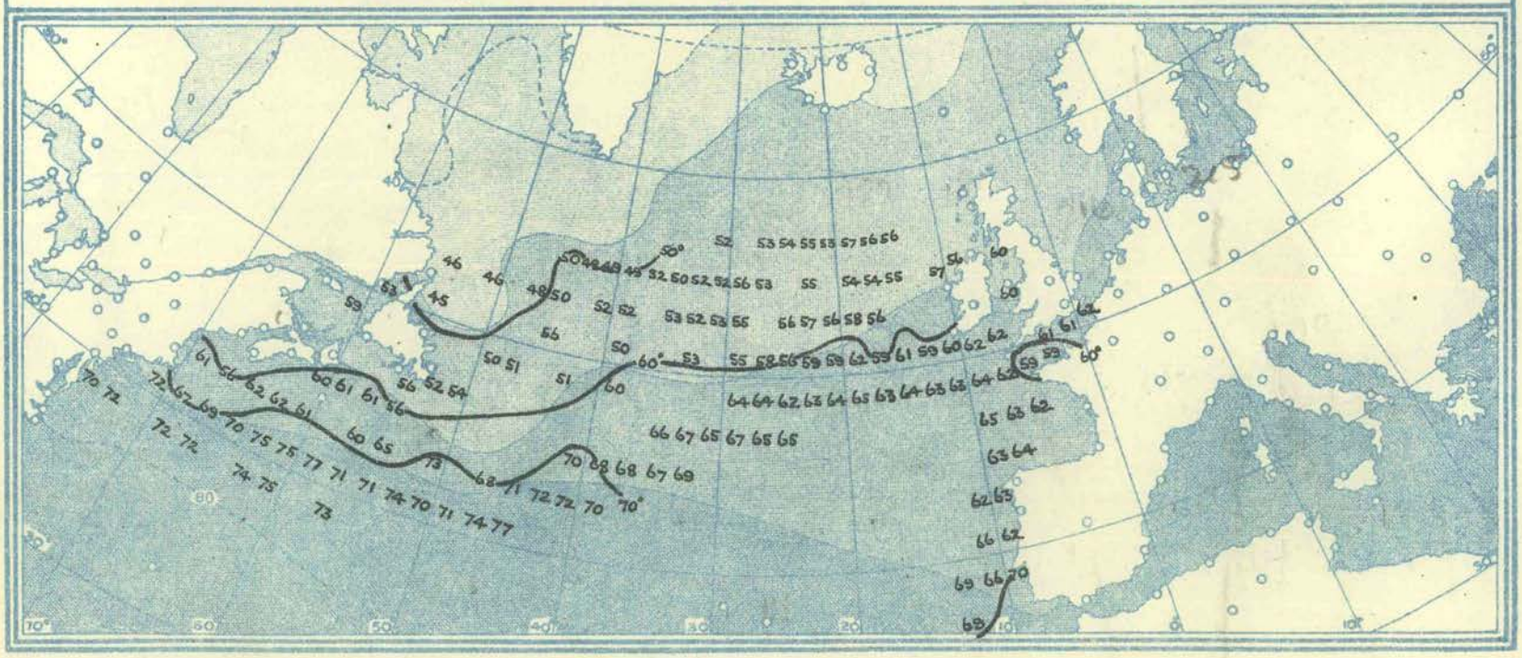


August 29th.—A small depression over Brittany had considerable effect on the weather over the south of these Islands during day, causing thunderstorms in several localities, and heavy rains locally. At Shrewsbury the gauge yielded 1·0in., at Roche's Point 0·9in. Severe thunderstorms, with heavy rain, were also experienced over France; 1·5in. at Biarritz and 1·9in. at Limoges. Slighter amounts of rain occurred in Switzerland and at Warsaw. Maximum temperature readings above 90° were registered in Algeria and at Palma, and above 80° over a large area in the central and southern countries of Europe, as well as in the Netherlands; 86° at Patras and Nice, 88° at Florence. In the United Kingdom the thermometer rose very little above 70°.



August 30th.—A large depression over the Icelandic region moved north-eastward during day, and a shallow disturbance over England moved in an easterly direction. Thunderstorms occurred locally in this country, France, and Austria, and considerable quantities of rain fell in a few places; 1·2in. at Bognor, 0·8in. at North Shields, 1·1in. at Paris and Trieste, and 1·6in. at Lugano. Maximum temperature readings above 75° were recorded at many English stations, and above 80° over a large area on the Continent; 87° at Florence and Rome, 88° at Athens, and 91° at Pesaro. Over the United Kingdom the atmosphere was very humid, and the minimum temperature of the night high.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 30TH. AUGUST, 1913.



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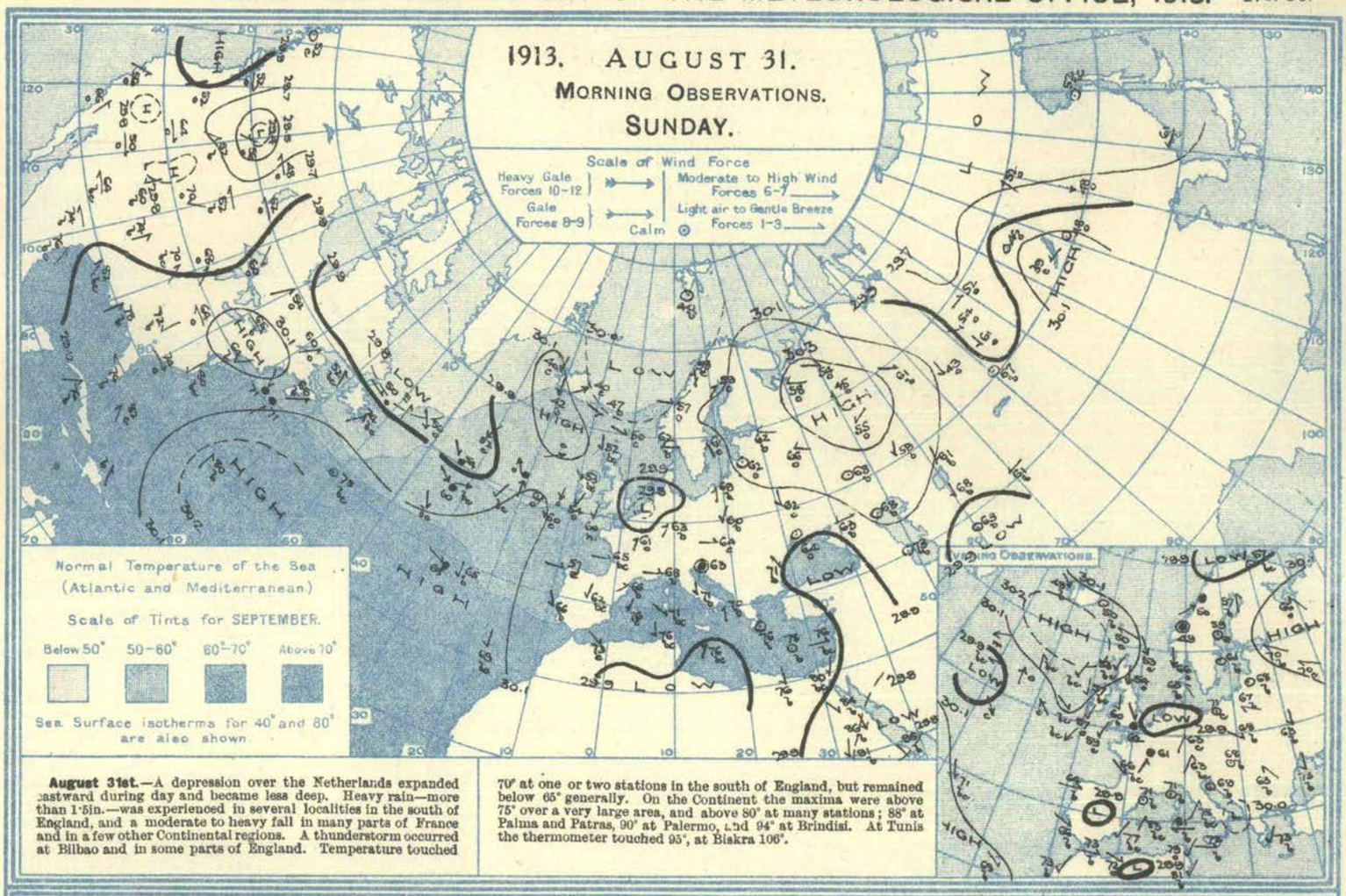
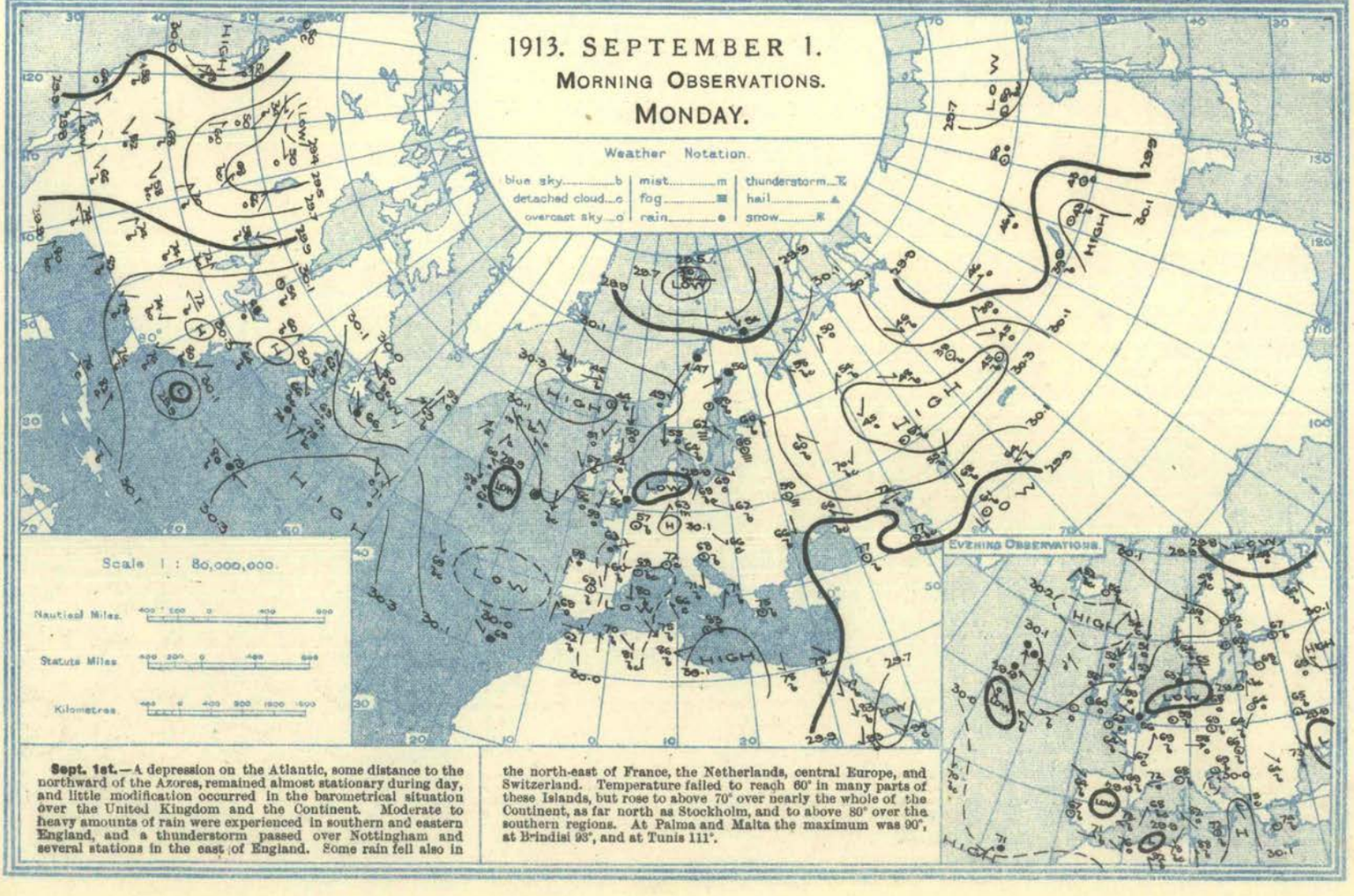


August 31st.—A depression over the Netherlands expanded eastward during day and became less deep. Heavy rain—more than 1·5in.—was experienced in several localities in the south of England, and a moderate to heavy fall in many parts of France and in a few other Continental regions. A thunderstorm occurred at Bilbao and in some parts of England. Temperature touched 70° at one or two stations in the south of England, but remained below 65° generally. On the Continent the maxima were above 75° over a very large area, and above 80° at many stations; 88° at Palma and Patras, 90° at Palermo, and 94° at Brindisi. At Tunis the thermometer touched 95°, at Biskra 106°.

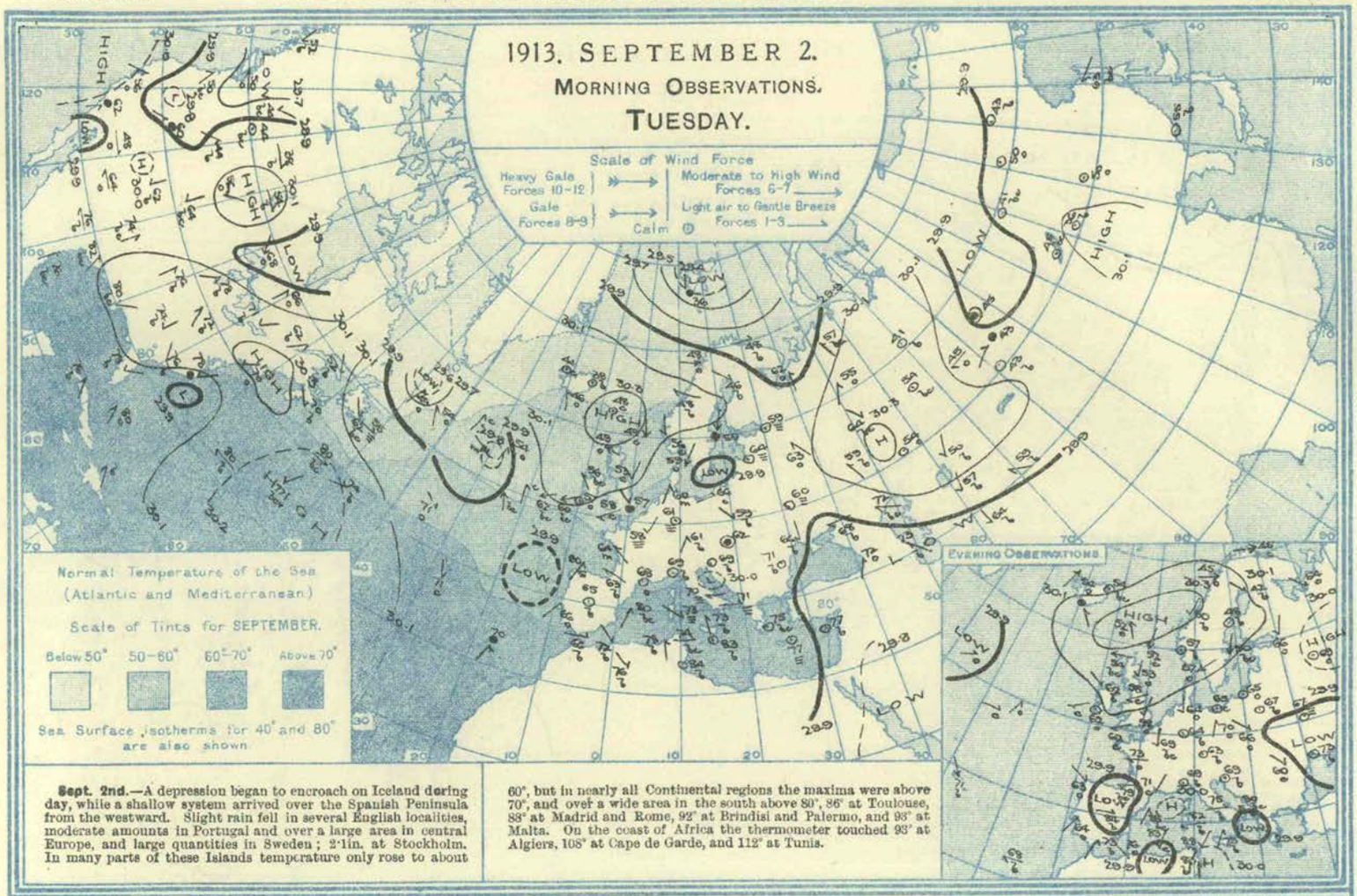


Sept. 1st.—A depression on the Atlantic, some distance to the northward of the Azores, remained almost stationary during day, and little modification occurred in the barometrical situation over the United Kingdom and the Continent. Moderate to heavy amounts of rain were experienced in southern and eastern England, and a thunderstorm passed over Nottingham and several stations in the east of England. Some rain fell also in the north-east of France, the Netherlands, central Europe, and Switzerland. Temperature failed to reach 60° in many parts of these Islands, but rose to above 70° over nearly the whole of the Continent, as far north as Stockholm, and to above 80° over the southern regions. At Palma and Malta the maximum was 90°, at Brindisi 93°, and at Tunis 111°.

1913. SEPTEMBER 2.

MORNING OBSERVATIONS.

TUESDAY.

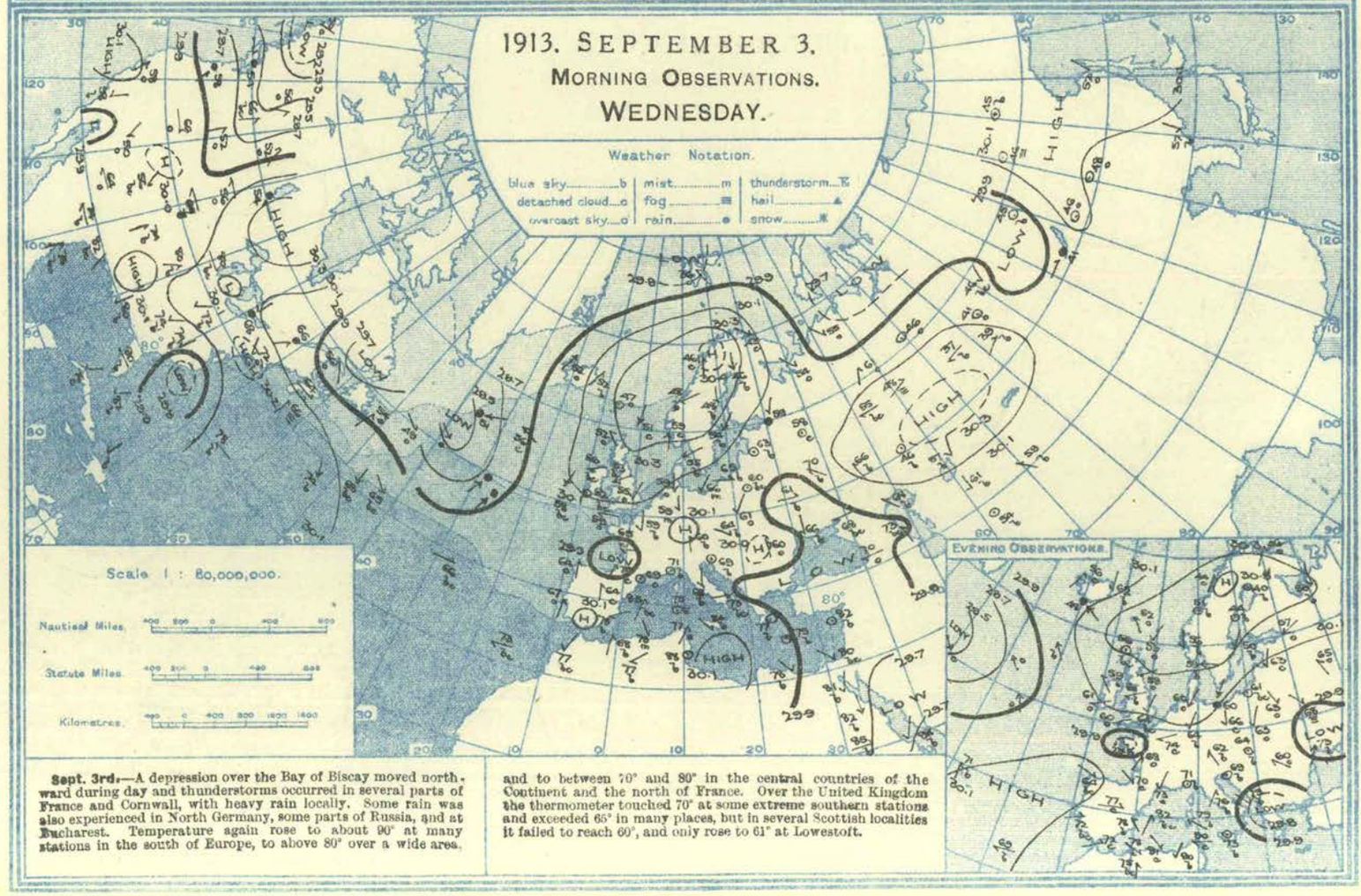


Sept. 2nd.—A depression began to encroach on Iceland during day, while a shallow system arrived over the Spanish Peninsula from the westward. Slight rain fell in several English localities, moderate amounts in Portugal and over a large area in central Europe, and large quantities in Sweden; 2·1in. at Stockholm. In many parts of these Islands temperature only rose to about 60°, but in nearly all Continental regions the maxima were above 70°, and over a wide area in the south above 80°, 86° at Toulouse, 88° at Madrid and Rome, 92° at Brindisi and Palermo, and 93° at Malta. On the coast of Africa the thermometer touched 93° at Algiers, 108° at Cape de Garde, and 112° at Tunis.

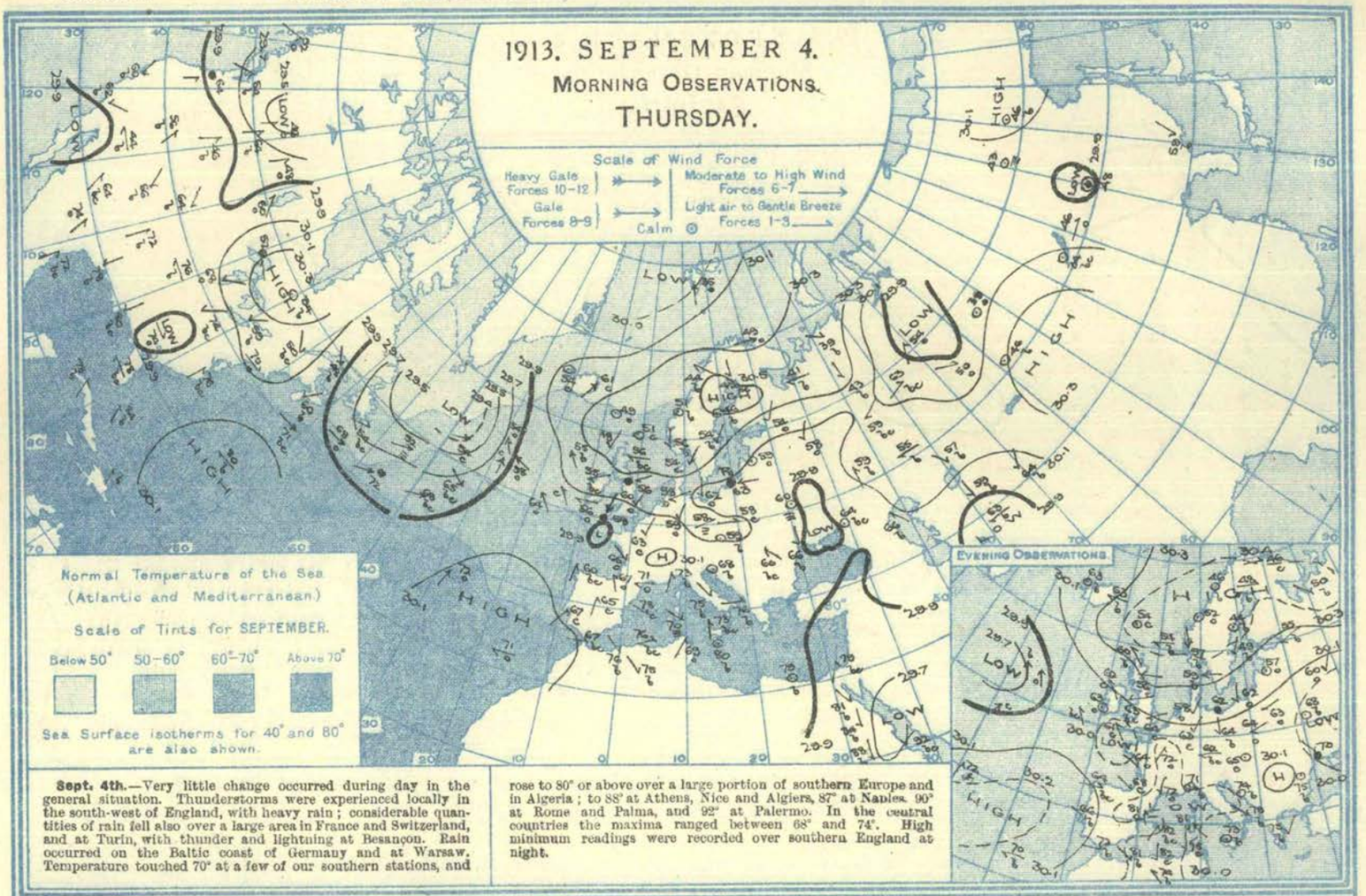
1913. SEPTEMBER 3.

MORNING OBSERVATIONS.

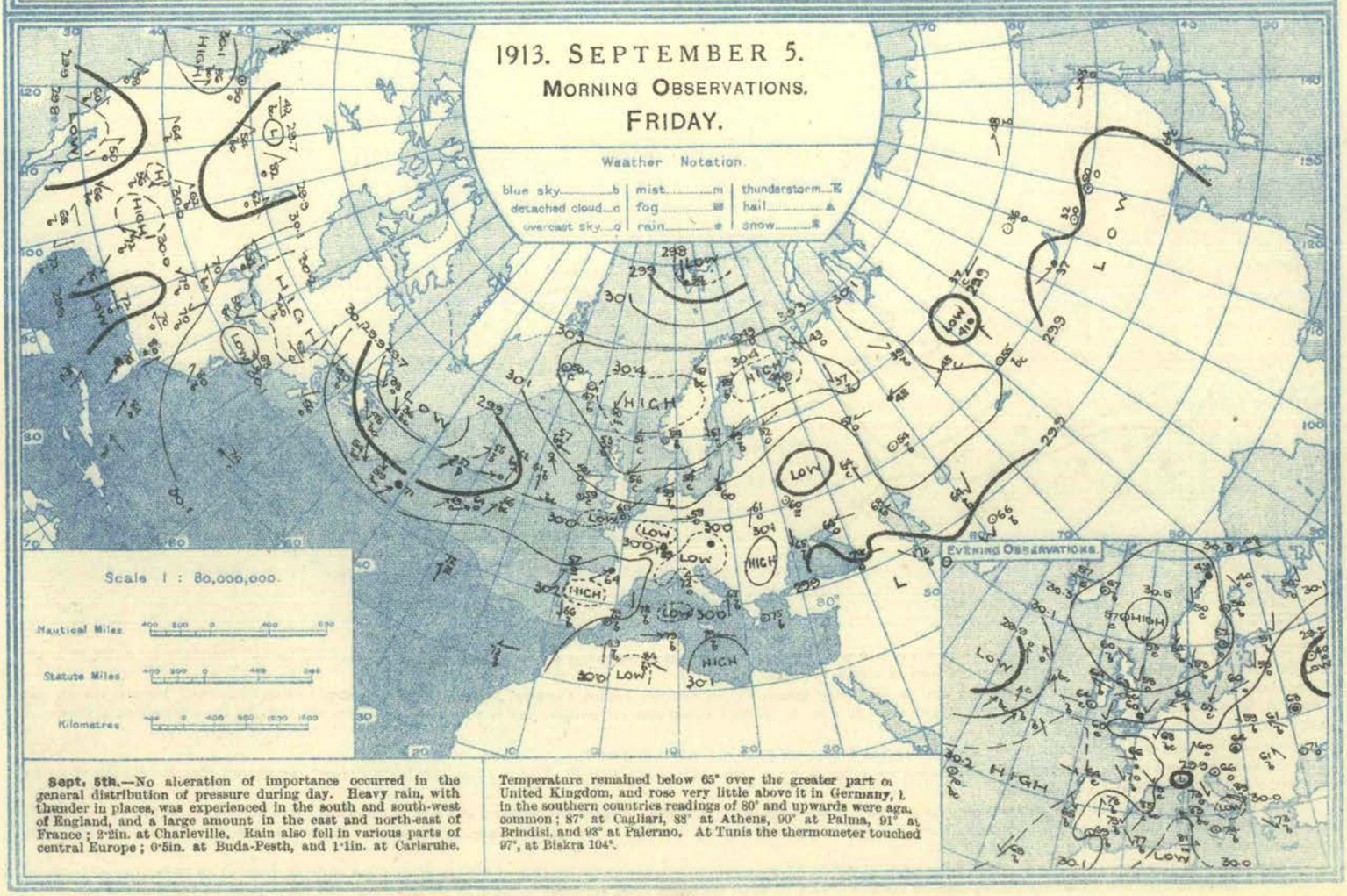
WEDNESDAY.



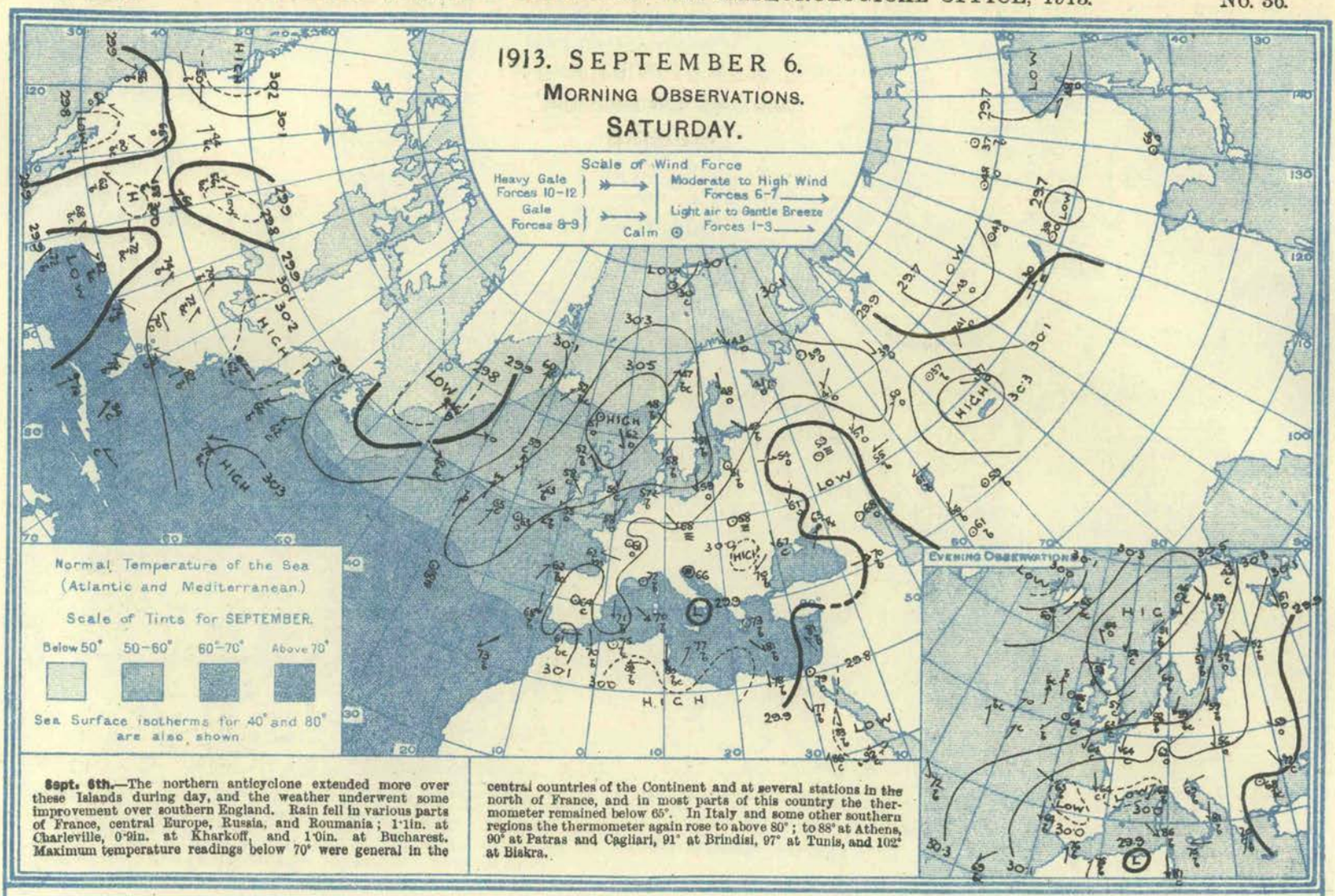
Sept. 3rd.—A depression over the Bay of Biscay moved northward during day and thunderstorms occurred in several parts of France and Cornwall, with heavy rain locally. Some rain was also experienced in North Germany, some parts of Russia, and at Bucharest. Temperature again rose to about 90° at many stations in the south of Europe, to above 80° over a wide area, and to between 70° and 80° in the central countries of the Continent and the north of France. Over the United Kingdom the thermometer touched 70° at some extreme southern stations and exceeded 65° in many places, but in several Scottish localities it failed to reach 60°, and only rose to 61° at Lowestoft.



Sept. 4th.—Very little change occurred during day in the general situation. Thunderstorms were experienced locally in the south-west of England, with heavy rain; considerable quantities of rain fell also over a large area in France and Switzerland, and at Turin, with thunder and lightning at Besançon. Rain occurred on the Baltic coast of Germany and at Warsaw. Temperature touched 70° at a few of our southern stations, and rose to 80° or above over a large portion of southern Europe and in Algeria; to 88° at Athens, Nice and Algiers, 87° at Naples, 90° at Rome and Palma, and 92° at Palermo. In the central countries the maxima ranged between 68° and 74°. High minimum readings were recorded over southern England at night.

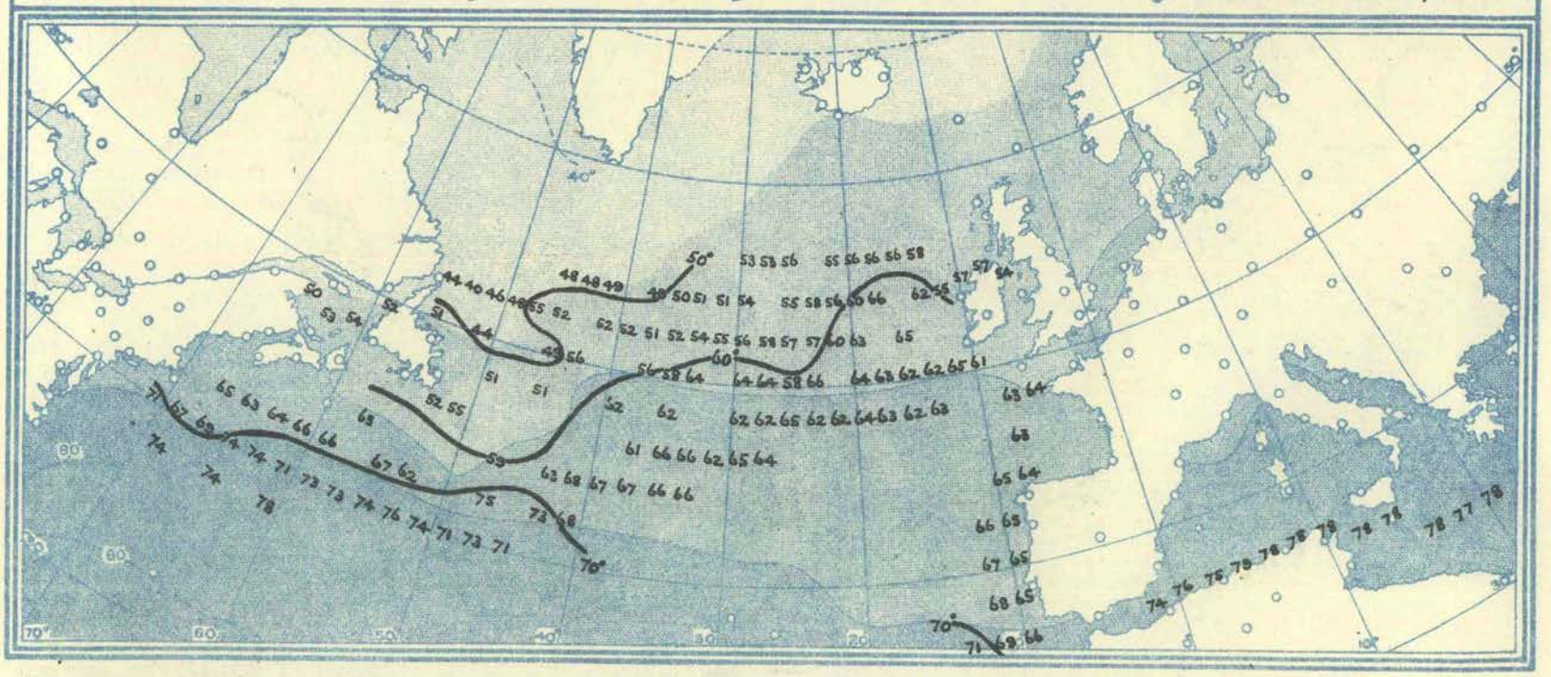


Sept. 5th.—No alteration of importance occurred in the general distribution of pressure during day. Heavy rain, with thunder in places, was experienced in the south and south-west of England, and a large amount in the east and north-east of France; 2·2in. at Charleville. Rain also fell in various parts of central Europe; 0·5in. at Buda-Pesth, and 1·1in. at Carlsruhe. Temperature remained below 65° over the greater part of United Kingdom, and rose very little above it in Germany, but in the southern countries readings of 80° and upwards were again common; 87° at Cagliari, 88° at Athens, 90° at Palma, 91° at Brindisi, and 93° at Palermo. At Tunis the thermometer touched 97°, at Biskra 104°.



Sept. 6th.—The northern anticyclone extended more over these Islands during day, and the weather underwent some improvement over southern England. Rain fell in various parts of France, central Europe, Russia, and Roumania; 1·1in. at Charleville, 0·9in. at Kharkoff, and 1·0in. at Bucharest. Maximum temperature readings below 70° were general in the central countries of the Continent and at several stations in the north of France, and in most parts of this country the thermometer remained below 65°. In Italy and some other southern regions the thermometer again rose to above 80°; to 88° at Athens, 90° at Patras and Cagliari, 91° at Brindisi, 97° at Tunis, and 102° at Biskra.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 6TH. SEPTEMBER, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain and in the Azores. These times refer to Greenwich Mean Time.

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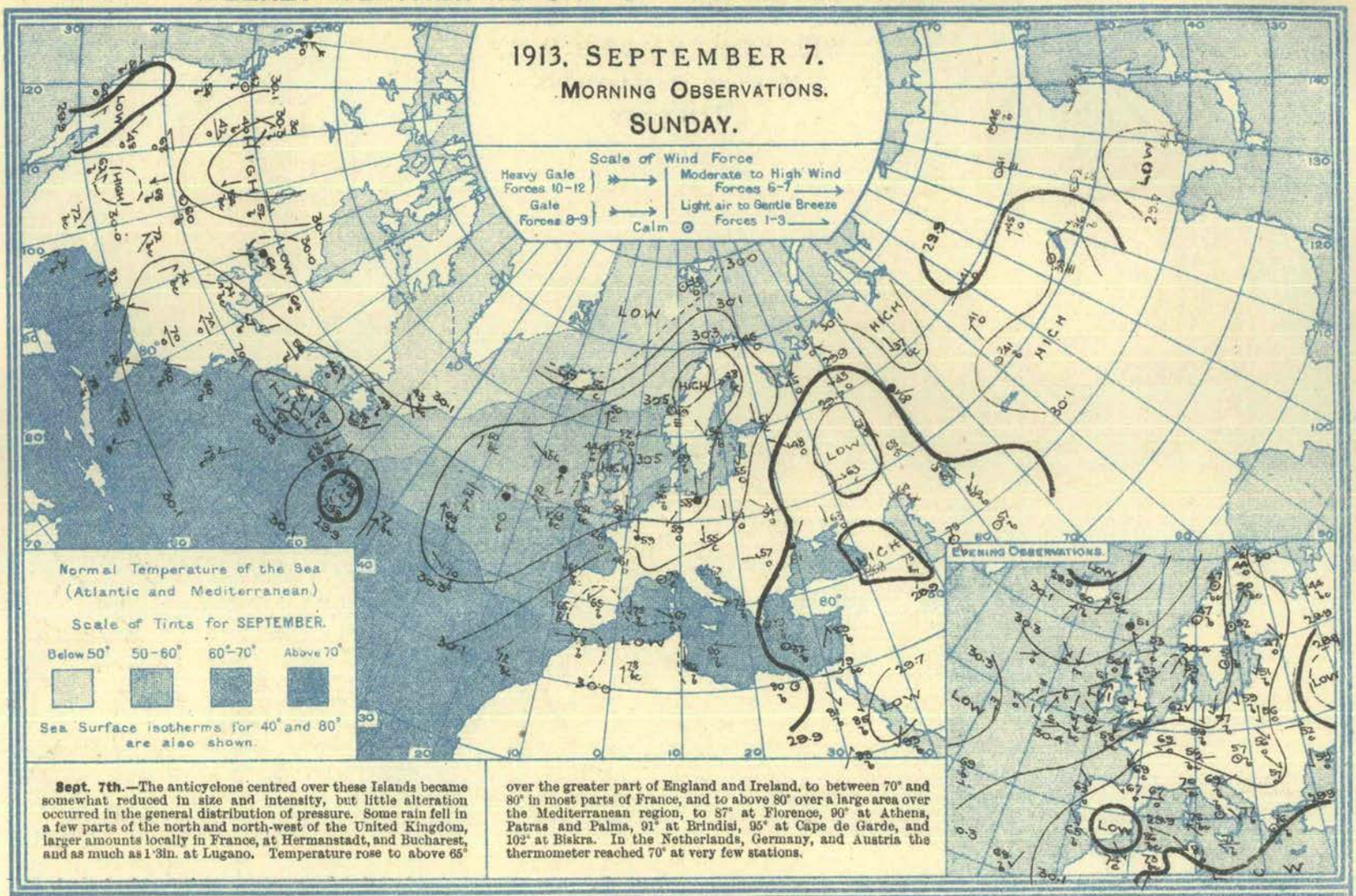
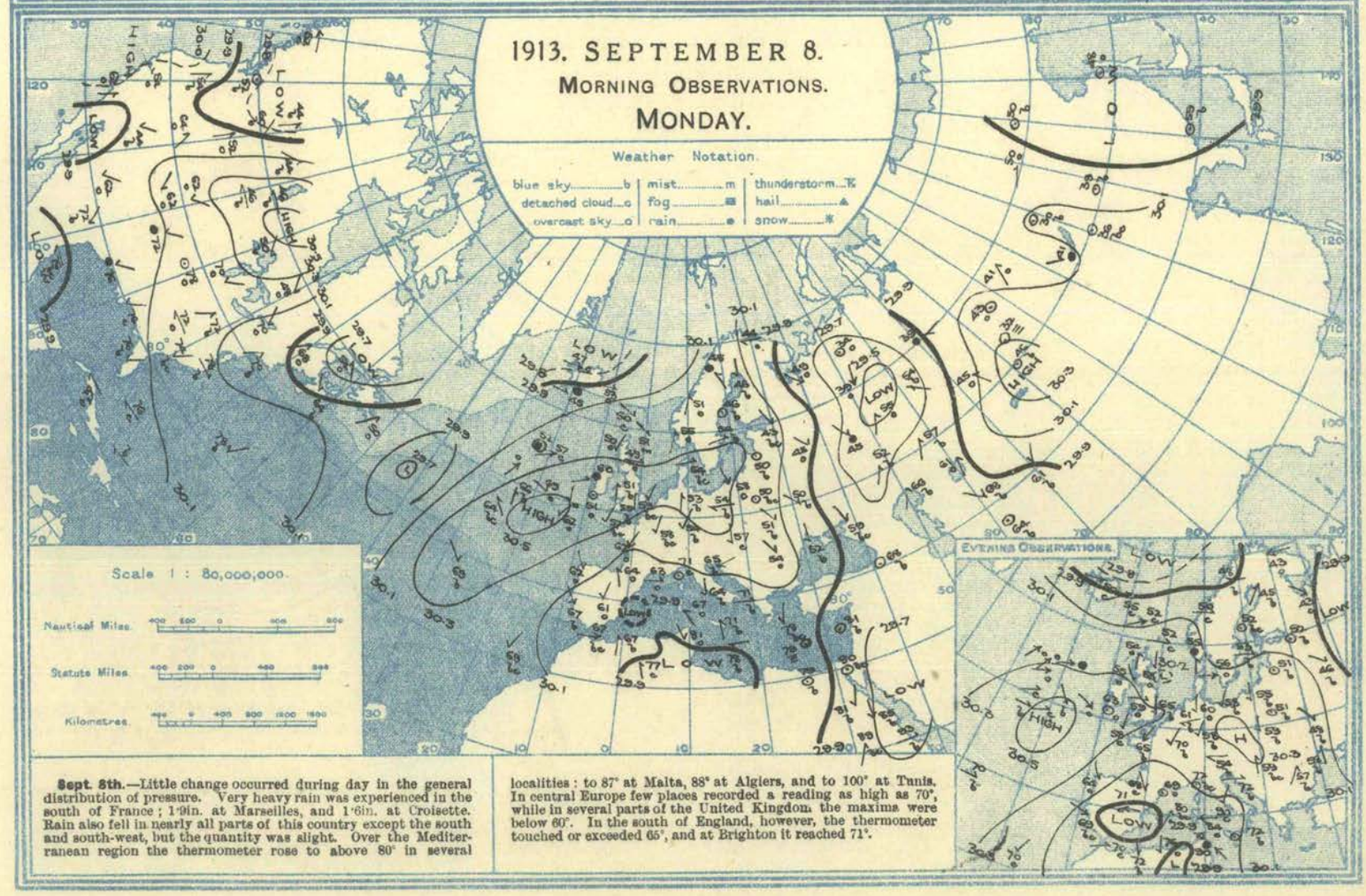
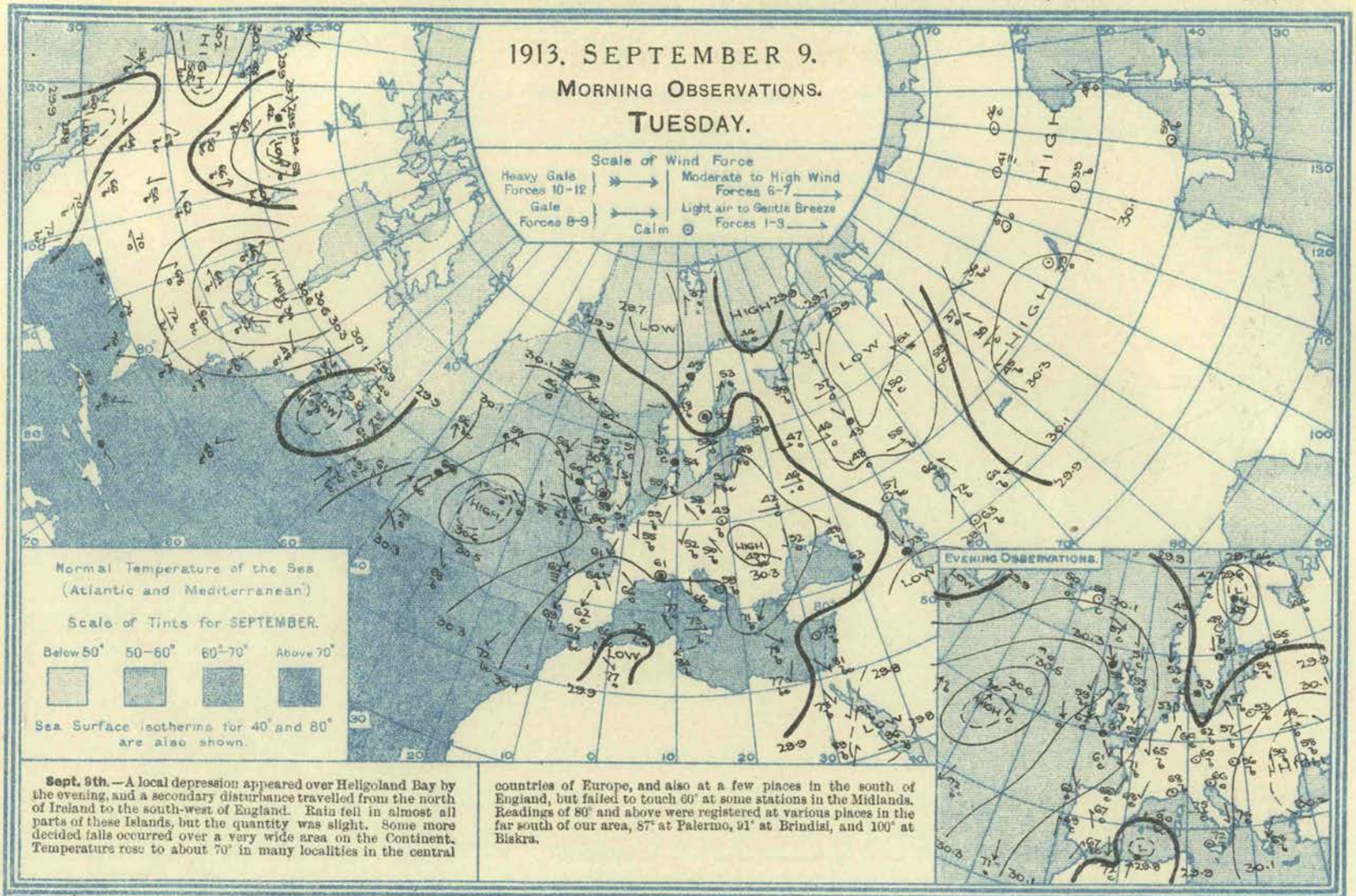


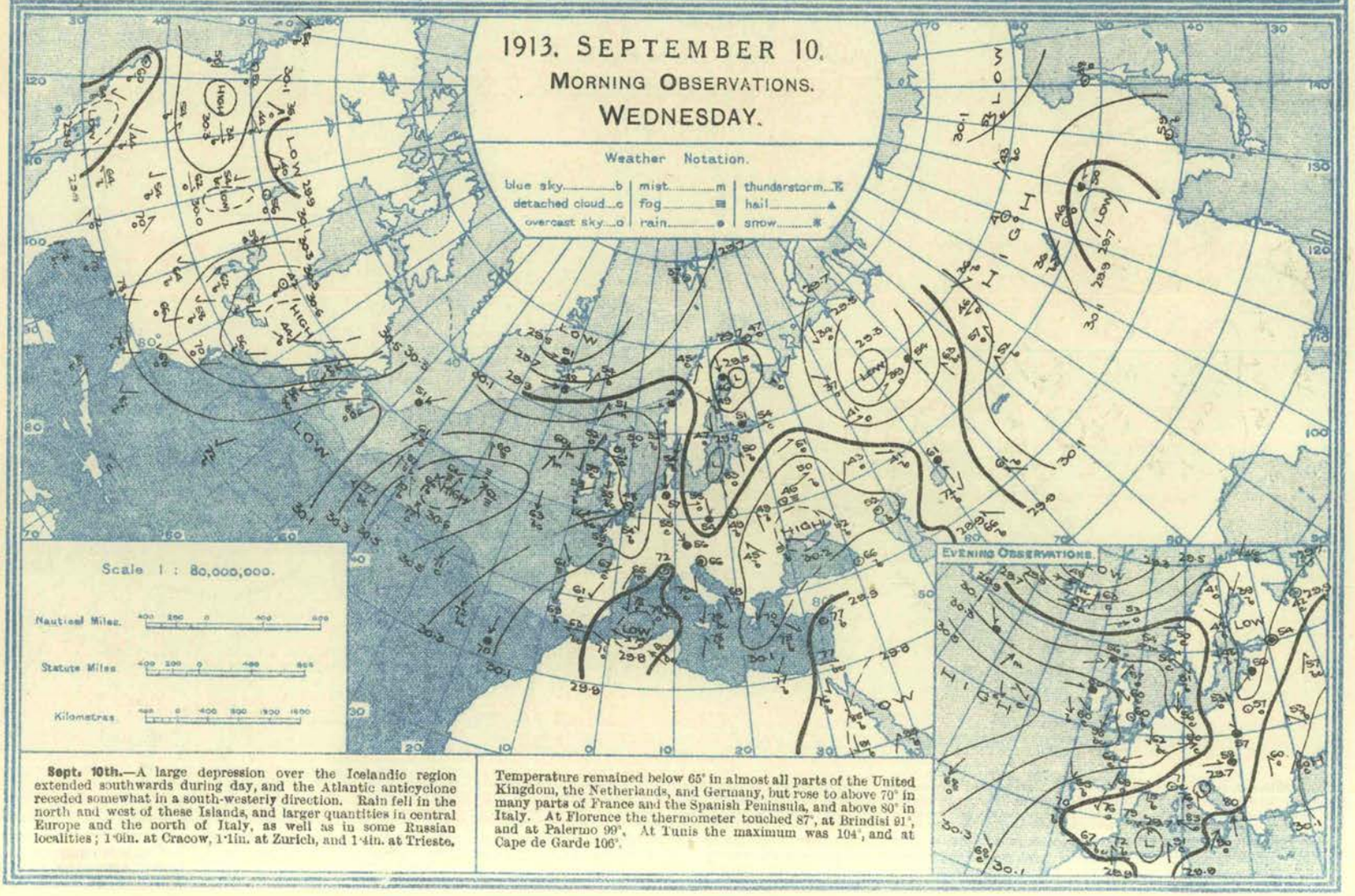
Sept. 7th.—The anticyclone centred over these Islands became somewhat reduced in size and intensity, but little alteration occurred in the general distribution of pressure. Some rain fell in a few parts of the north and north-west of the United Kingdom, larger amounts locally in France, at Hermanstadt, and Bucharest, and as much as 1·3in. at Lugano. Temperature rose to above 65° over the greater part of England and Ireland, to between 70° and 80° in most parts of France, and to above 80° over a large area over the Mediterranean region, to 87° at Florence, 90° at Athens, Patras and Palma, 91° at Brindisi, 95° at Cape de Garde, and 102° at Biskra. In the Netherlands, Germany, and Austria the thermometer reached 70° at very few stations.



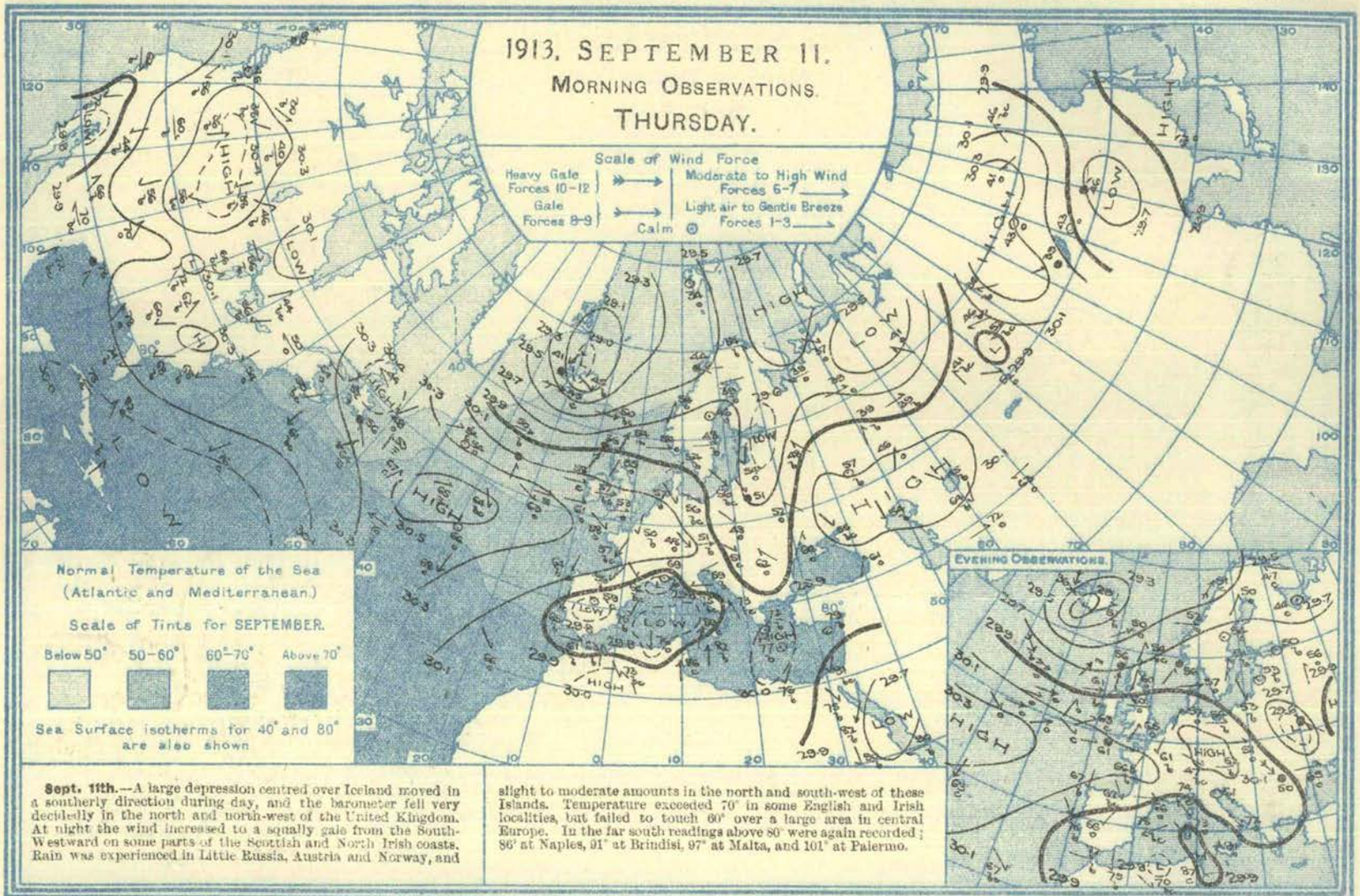
Sept. 8th.—Little change occurred during day in the general distribution of pressure. Very heavy rain was experienced in the south of France; 1·9in. at Marseilles, and 1·6in. at Croisette. Rain also fell in nearly all parts of this country except the south and south-west, but the quantity was slight. Over the Mediterranean region the thermometer rose to above 80° in several localities: to 87° at Malta, 88° at Algiers, and to 100° at Tunis. In central Europe few places recorded a reading as high as 70°, while in several parts of the United Kingdom the maxima were below 60°. In the south of England, however, the thermometer touched or exceeded 65°, and at Brighton it reached 71°.



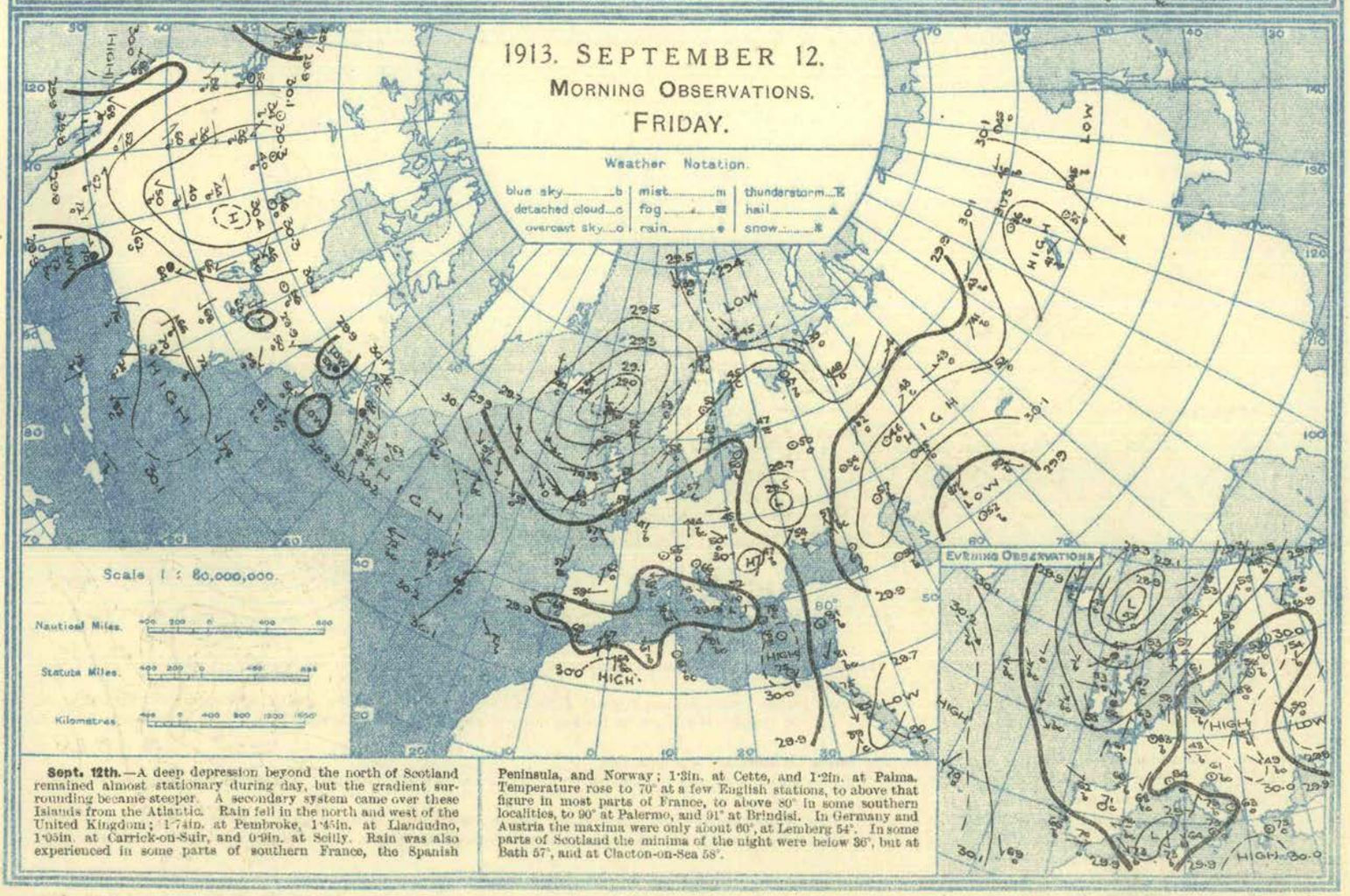
Sept. 9th.—A local depression appeared over Heligoland Bay by the evening, and a secondary disturbance travelled from the north of Ireland to the south-west of England. Rain fell in almost all parts of these Islands, but the quantity was slight. Some more decided falls occurred over a very wide area on the Continent. Temperature rose to about 70° in many localities in the central countries of Europe, and also at a few places in the south of England, but failed to touch 60° at some stations in the Midlands. Readings of 80° and above were registered at various places in the far south of our area, 87° at Palermo, 91° at Brindisi, and 100° at Biskra.



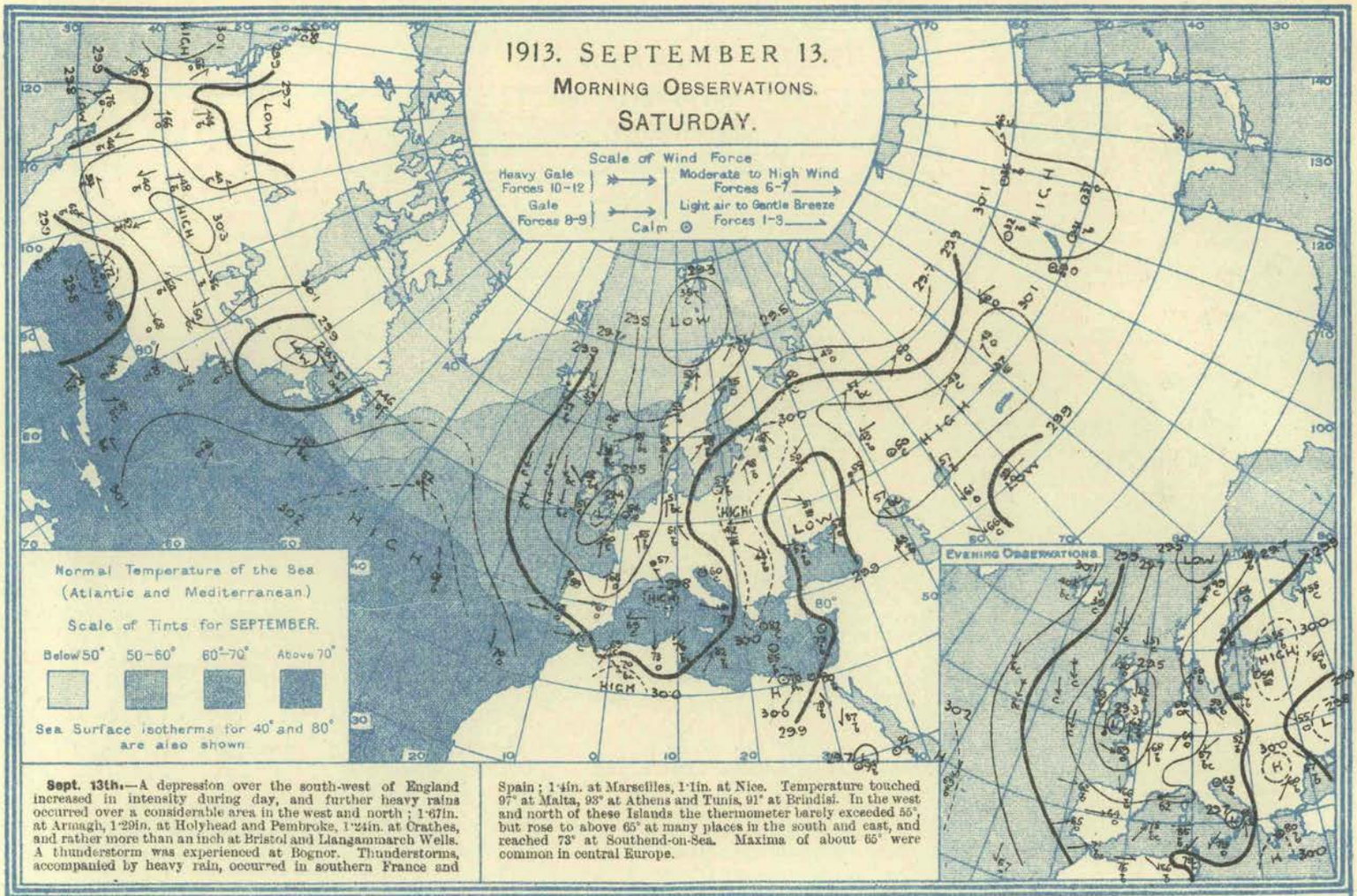
Sept. 10th.—A large depression over the Icelandic region extended southwards during day, and the Atlantic anticyclone receded somewhat in a south-westerly direction. Rain fell in the north and west of these Islands, and larger quantities in central Europe and the north of Italy, as well as in some Russian localities; 1·0in. at Cracow, 1·1in. at Zurich, and 1·4in. at Trieste. Temperature remained below 65° in almost all parts of the United Kingdom, the Netherlands, and Germany, but rose to above 70° in many parts of France and the Spanish Peninsula, and above 80° in Italy. At Florence the thermometer touched 87°, at Brindisi 91°, and at Palermo 99°. At Tunis the maximum was 104°, and at Cape de Garde 106°.



Sept. 11th.—A large depression centred over Iceland moved in a southerly direction during day, and the barometer fell very decidedly in the north and north-west of the United Kingdom. At night the wind increased to a squally gale from the South-Westward on some parts of the Scottish and North Irish coasts. Rain was experienced in Little Russia, Austria and Norway, and slight to moderate amounts in the north and south-west of these Islands. Temperature exceeded 70° in some English and Irish localities, but failed to touch 60° over a large area in central Europe. In the far south readings above 80° were again recorded; 86° at Naples, 91° at Brindisi, 97° at Malta, and 101° at Palermo.

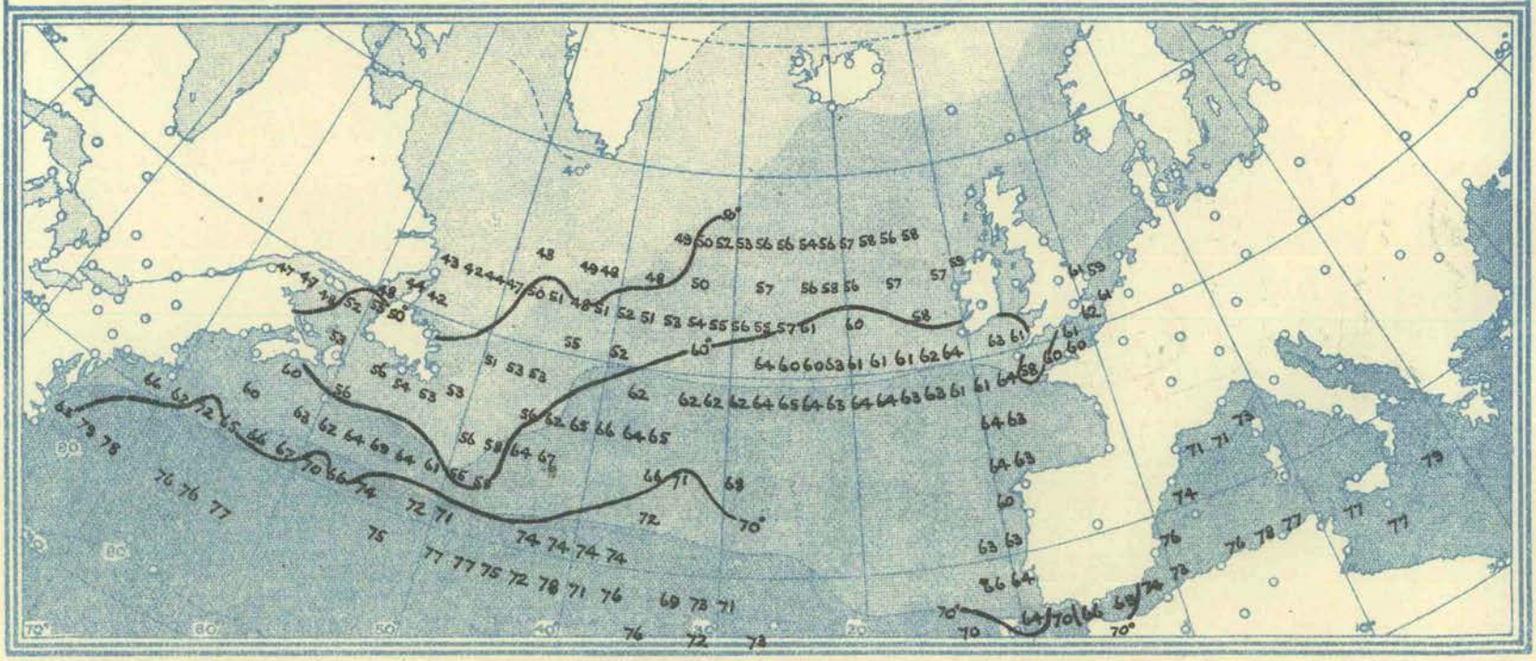


Sept. 12th.—A deep depression beyond the north of Scotland remained almost stationary during day, but the gradient surrounding became steeper. A secondary system came over these Islands from the Atlantic. Rain fell in the north and west of the United Kingdom; 1·74in. at Pembroke, 1·45in. at Llandudno, 1·05in. at Carrick-on-Suir, and 0·99in. at Scilly. Rain was also experienced in some parts of southern France, the Spanish Peninsula, and Norway; 1·3in. at Cette, and 1·2in. at Palma. Temperature rose to 70° at a few English stations, to above that figure in most parts of France, to above 80° in some southern localities, to 90° at Palermo, and 91° at Brindisi. In Germany and Austria the maxima were only about 60°, at Lemberg 54°. In some parts of Scotland the minima of the night were below 36°, but at Bath 57°, and at Clacton-on-Sea 58°.



Sept. 13th.—A depression over the south-west of England increased in intensity during day, and further heavy rains occurred over a considerable area in the west and north; 1·67in. at Armagh, 1·29in. at Holyhead and Pembroke, 1·24in. at Crathes, and rather more than an inch at Bristol and Llangammarch Wells. A thunderstorm was experienced at Bognor. Thunderstorms, accompanied by heavy rain, occurred in southern France and Spain; 1·4in. at Marseilles, 1·1in. at Nice. Temperature touched 97° at Malta, 93° at Athens and Tunis, 91° at Brindisi. In the west and north of these Islands the thermometer barely exceeded 55°, but rose to above 65° at many places in the south and east, and reached 73° at Southend-on-Sea. Maxima of about 65° were common in central Europe.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 13TH SEPTEMBER, 1913.



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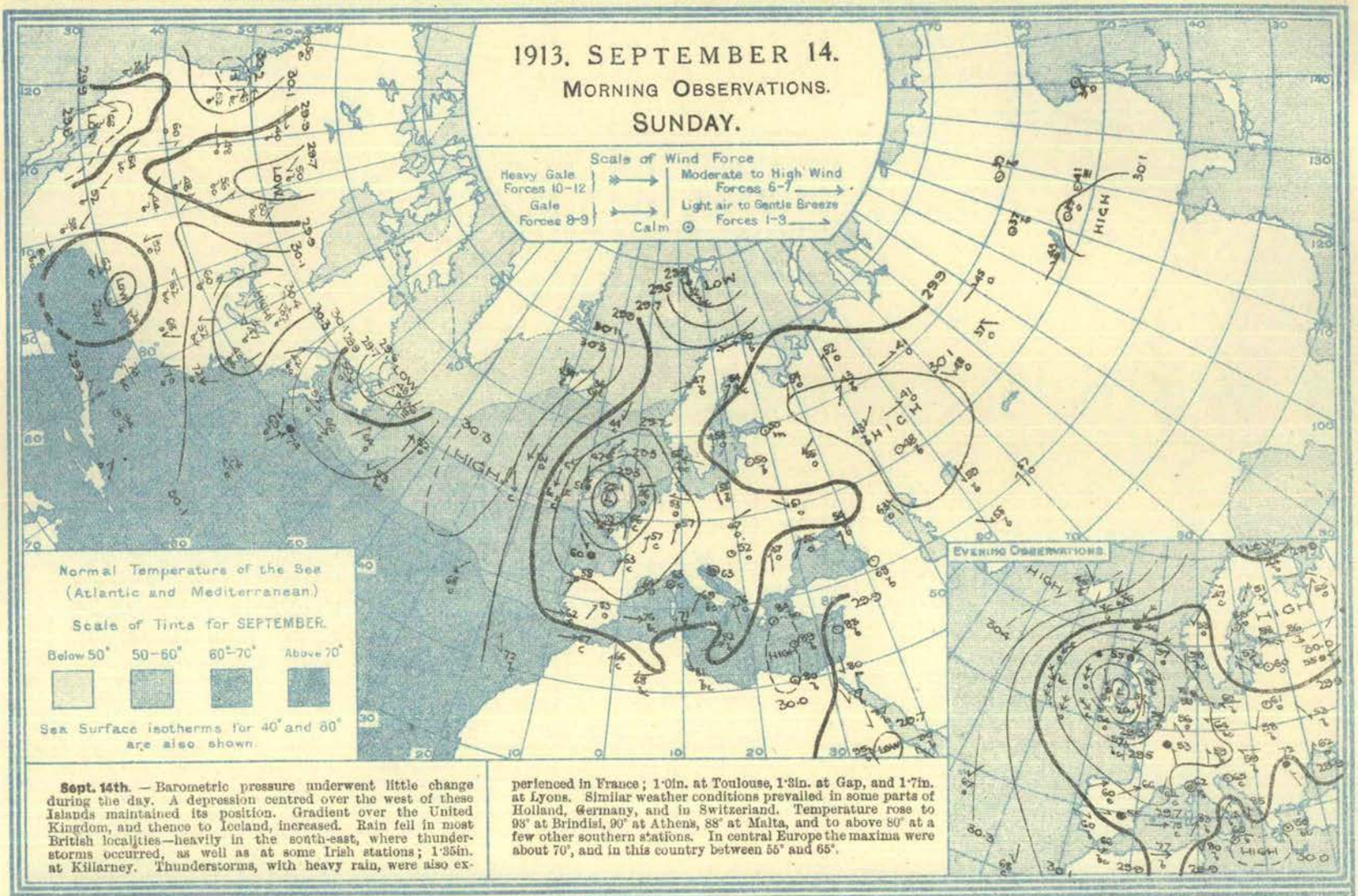
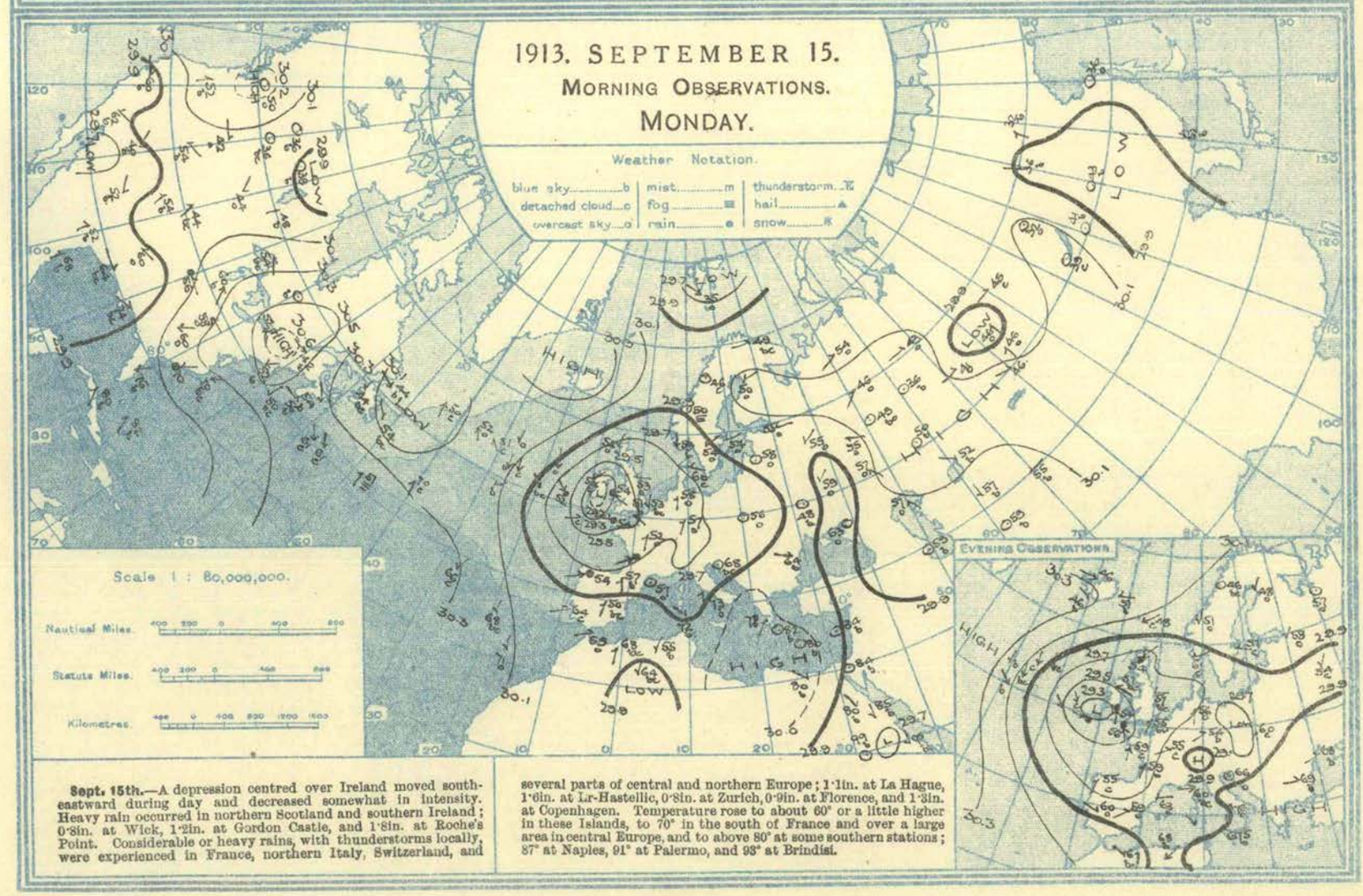
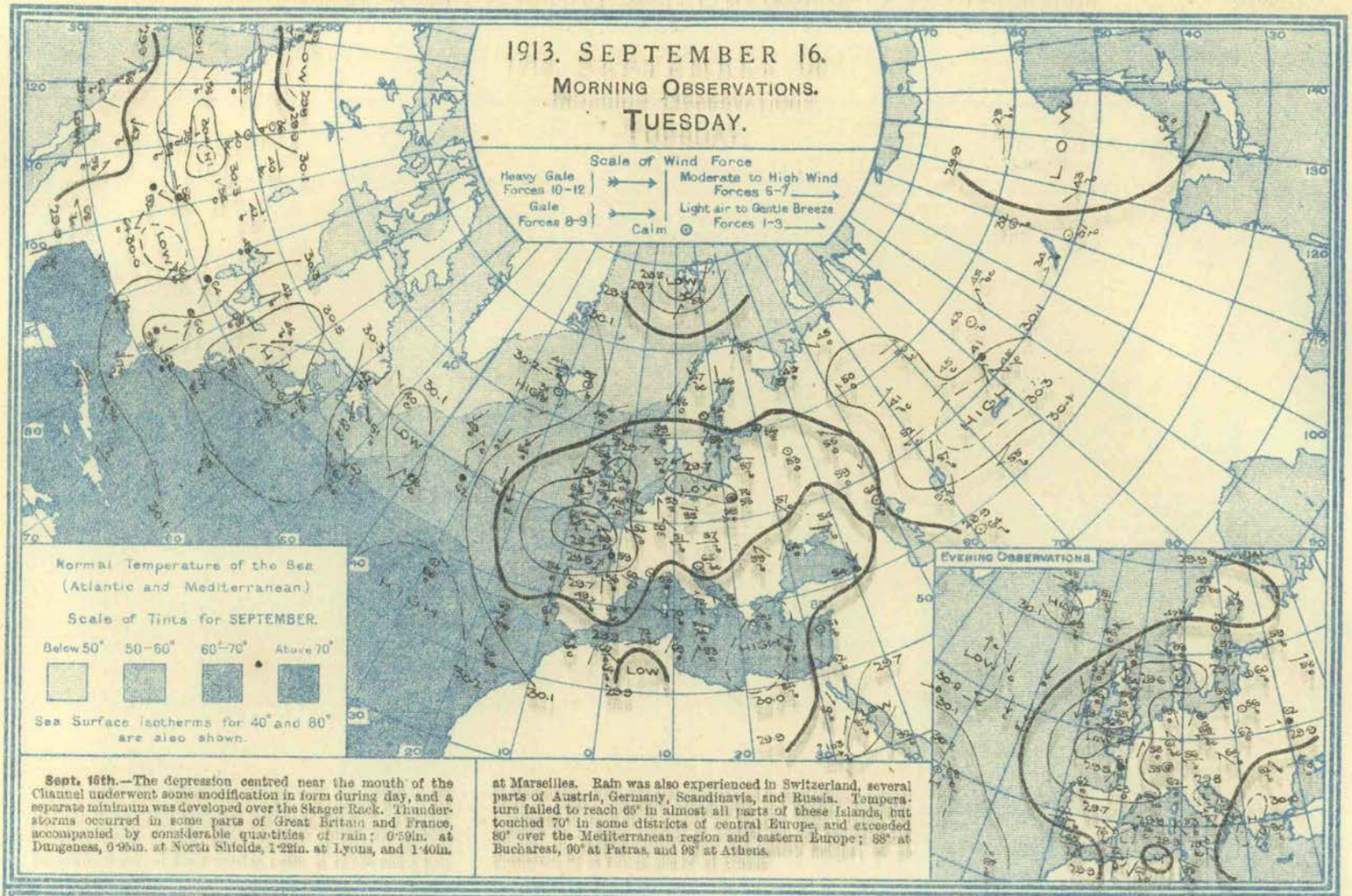


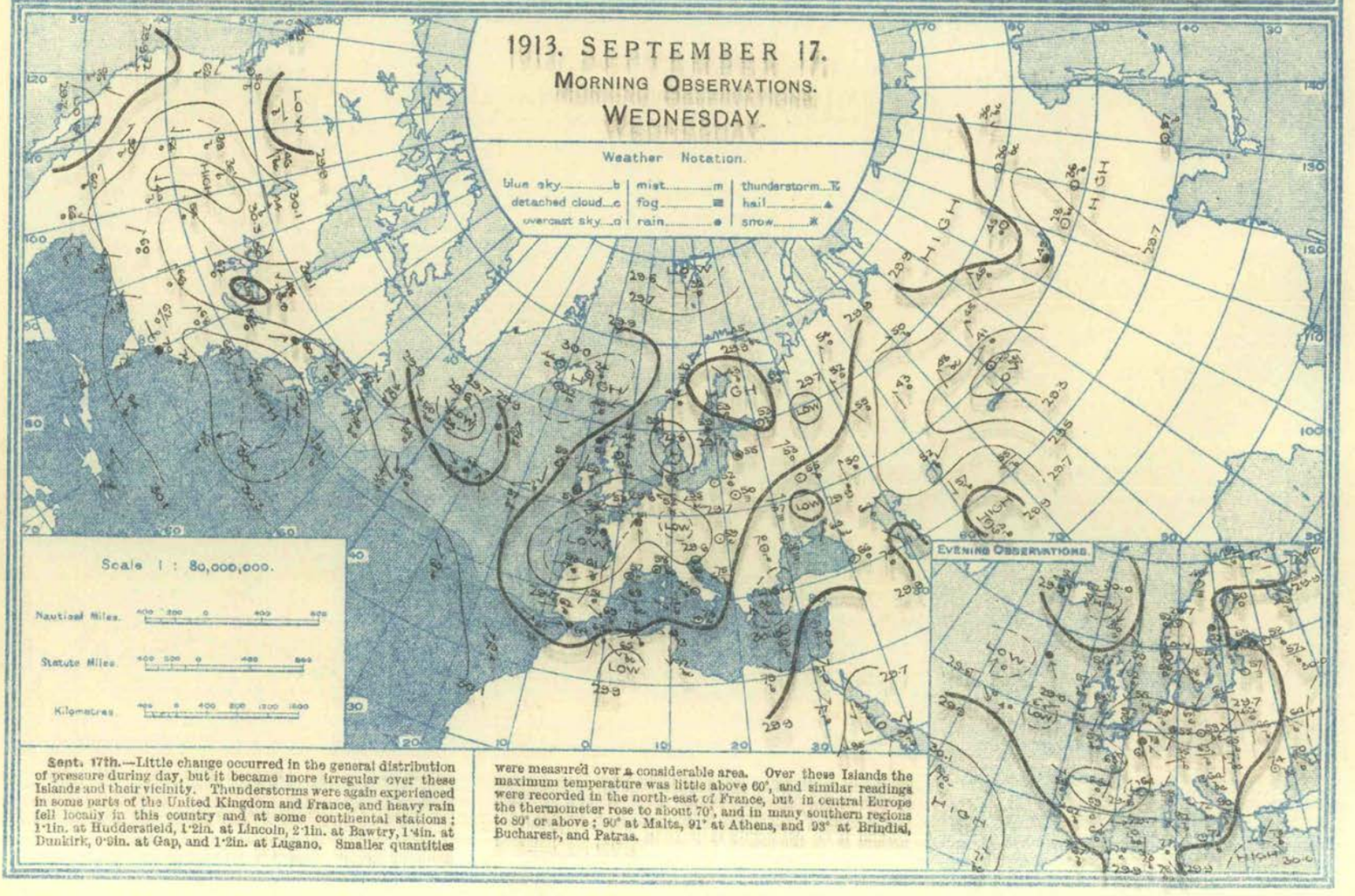
Sept. 14th. — Barometric pressure underwent little change during the day. A depression centred over the west of these Islands maintained its position. Gradient over the United Kingdom, and thence to Iceland, increased. Rain fell in most British localities—heavily in the south-east, where thunderstorms occurred, as well as at some Irish stations; 1·35in. at Killarney. Thunderstorms, with heavy rain, were also experienced in France; 1·0in. at Toulouse, 1·3in. at Gap, and 1·7in. at Lyons. Similar weather conditions prevailed in some parts of Holland, Germany, and in Switzerland. Temperature rose to 93° at Brindisi, 90° at Athens, 88° at Malta, and to above 80° at a few other southern stations. In central Europe the maxima were about 70°, and in this country between 55° and 65°.



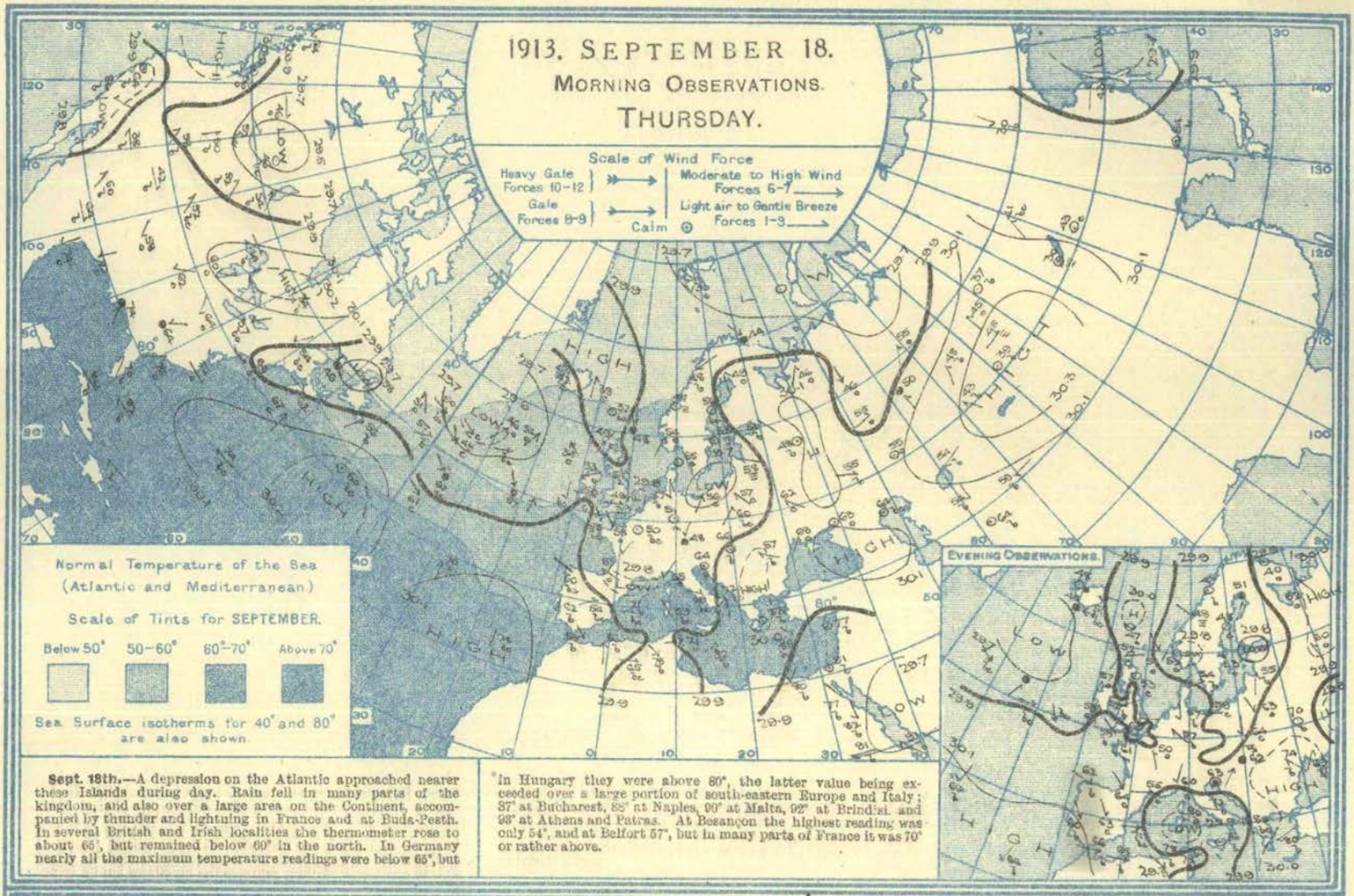
Sept. 15th.—A depression centred over Ireland moved south-eastward during day and decreased somewhat in intensity. Heavy rain occurred in northern Scotland and southern Ireland; 0·8in. at Wick, 1·2in. at Gordon Castle, and 1·8in. at Roche's Point. Considerable or heavy rains, with thunderstorms locally, were experienced in France, northern Italy, Switzerland, and several parts of central and northern Europe; 1·1in. at La Hague, 1·6in. at Ile-Hastellic, 0·8in. at Zurich, 0·9in. at Florence, and 1·3in. at Copenhagen. Temperature rose to about 60° or a little higher in these Islands, to 70° in the south of France and over a large area in central Europe, and to above 80° at some southern stations; 87° at Naples, 91° at Palermo, and 93° at Brindisi.



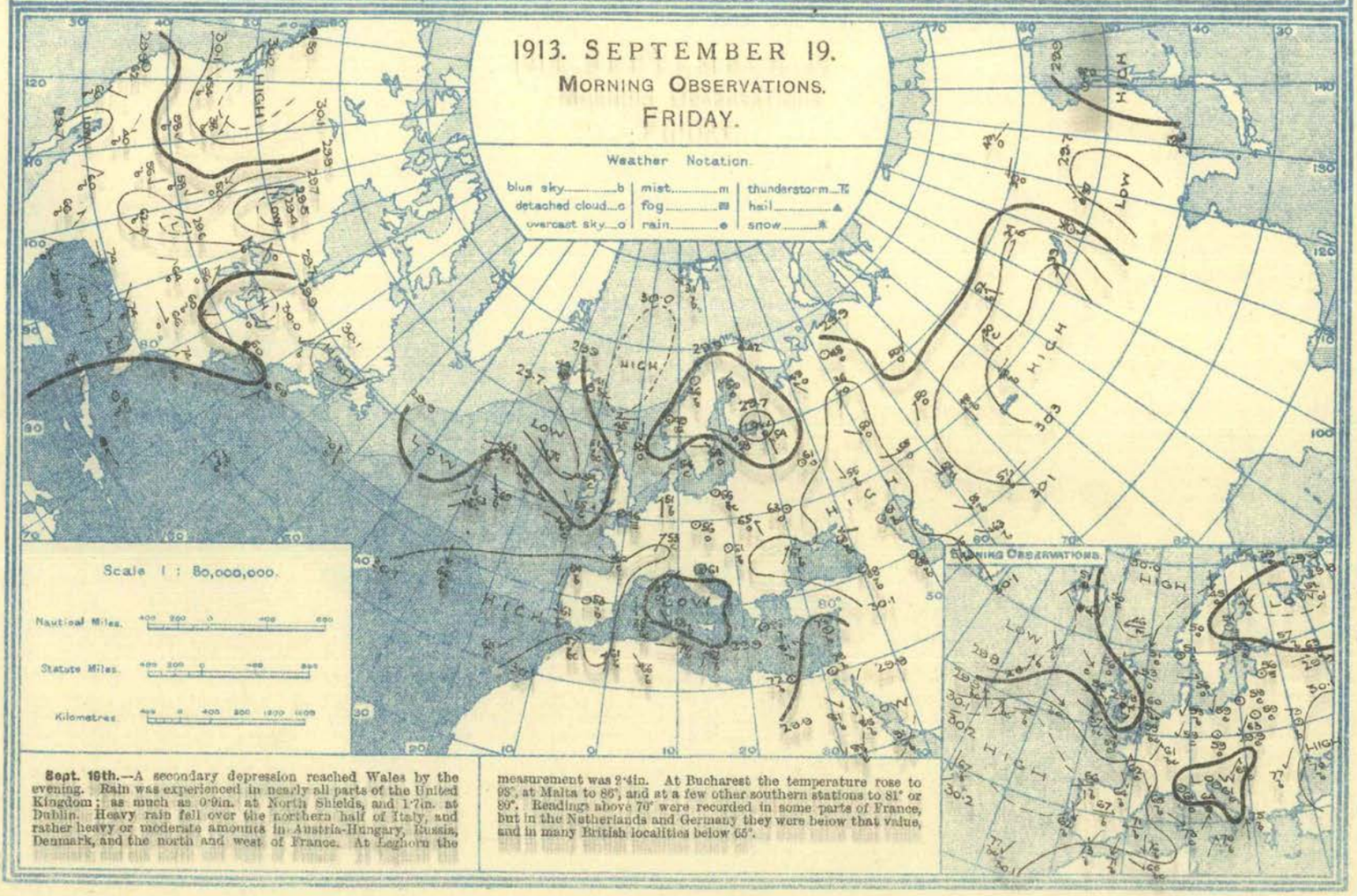
Sept. 16th.—The depression centred near the mouth of the Channel underwent some modification in form during day, and a separate minimum was developed over the Skager Rack. Thunderstorms occurred in some parts of Great Britain and France, accompanied by considerable quantities of rain: 0·59in. at Dungeness, 0·95in. at North Shields, 1·22in. at Lyons, and 1·40in. at Marseilles. Rain was also experienced in Switzerland, several parts of Austria, Germany, Scandinavia, and Russia. Temperature failed to reach 65° in almost all parts of these Islands, but touched 70° in some districts of central Europe, and exceeded 80° over the Mediterranean region and eastern Europe; 88° at Bucharest, 90° at Patras, and 93° at Athens.



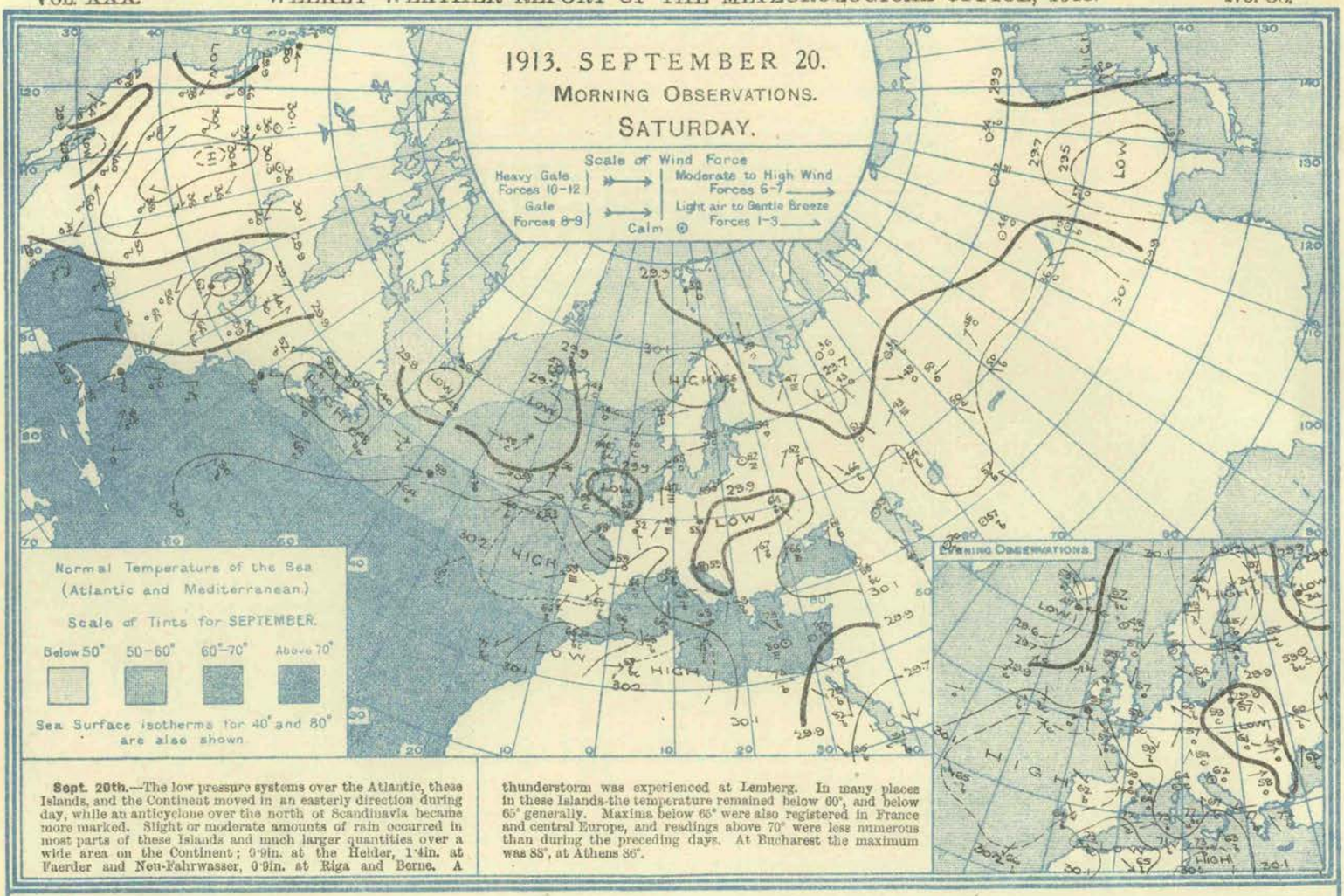
Sept. 17th.—Little change occurred in the general distribution of pressure during day, but it became more irregular over these Islands and their vicinity. Thunderstorms were again experienced in some parts of the United Kingdom and France, and heavy rain fell locally in this country and at some continental stations: 1·1in. at Huddersfield, 1·2in. at Lincoln, 2·1in. at Bawtry, 1·4in. at Dunkirk, 0·9in. at Gap, and 1·2in. at Lugano. Smaller quantities were measured over a considerable area. Over these Islands the maximum temperature was little above 60°, and similar readings were recorded in the north-east of France, but in central Europe the thermometer rose to about 70°, and in many southern regions to 80° or above; 90° at Malta, 91° at Athens, and 93° at Brindisi, Bucharest, and Patras.



Sept. 18th.—A depression on the Atlantic approached nearer these Islands during day. Rain fell in many parts of the kingdom, and also over a large area on the Continent, accompanied by thunder and lightning in France and at Buda-Pesth. In several British and Irish localities the thermometer rose to about 65°, but remained below 60° in the north. In Germany nearly all the maximum temperature readings were below 65°, but in Hungary they were above 80°, the latter value being exceeded over a large portion of south-eastern Europe and Italy; 87° at Bucharest, 88° at Naples, 90° at Malta, 92° at Brindisi, and 98° at Athens and Patras. At Besançon the highest reading was only 54°, and at Belfort 57°, but in many parts of France it was 70° or rather above.

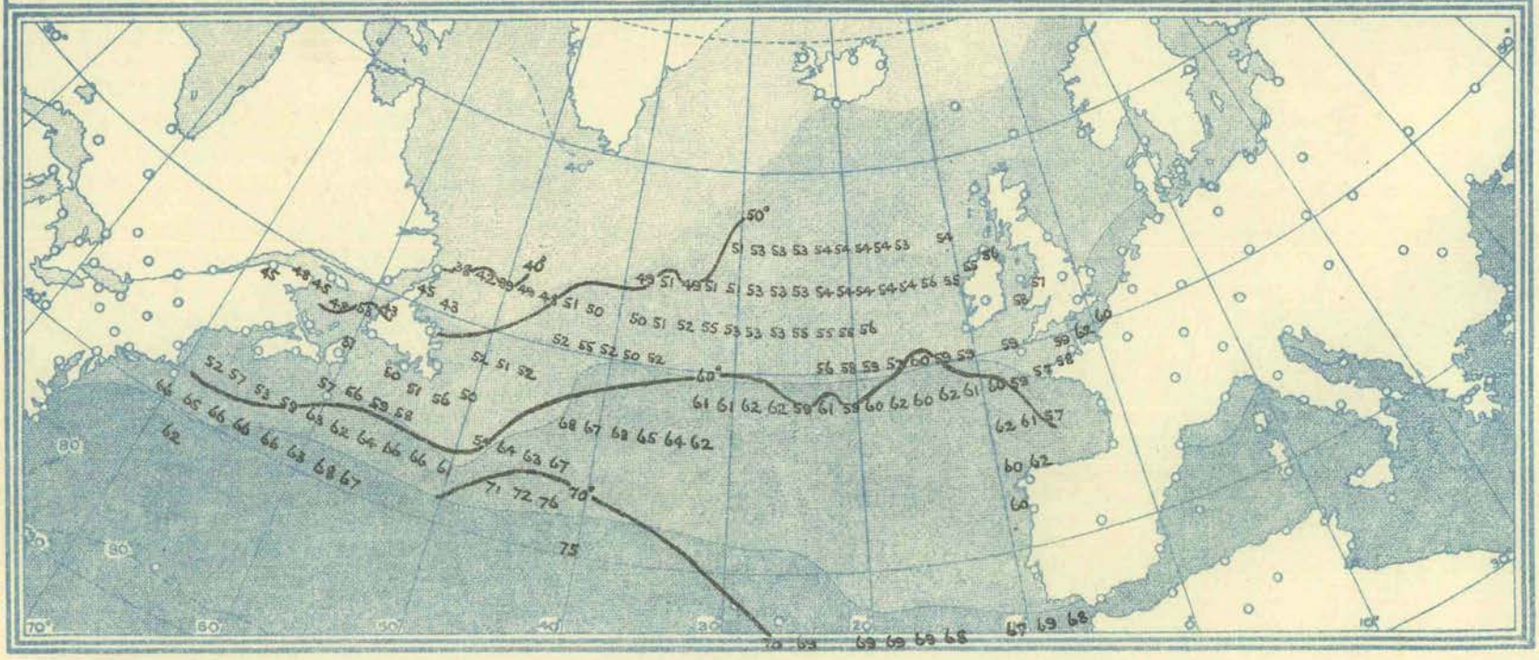


Sept. 19th.—A secondary depression reached Wales by the evening. Rain was experienced in nearly all parts of the United Kingdom; as much as 0·9in. at North Shields, and 1·7in. at Dublin. Heavy rain fell over the northern half of Italy, and rather heavy or moderate amounts in Austria-Hungary, Russia, Denmark, and the north and west of France. At Leghorn the measurement was 2·4in. At Bucharest the temperature rose to 93°, at Malta to 86°, and at a few other southern stations to 81° or 80°. Readings above 70° were recorded in some parts of France, but in the Netherlands and Germany they were below that value, and in many British localities below 65°.



Sept. 20th.—The low pressure systems over the Atlantic, these Islands, and the Continent moved in an easterly direction during day, while an anticyclone over the north of Scandinavia became more marked. Slight or moderate amounts of rain occurred in most parts of these Islands and much larger quantities over a wide area on the Continent; 0·9in. at the Helder, 1·4in. at Faerder and Neu-Fahrwasser, 0·9in. at Riga and Berne. A thunderstorm was experienced at Lemberg. In many places in these Islands the temperature remained below 60°, and below 65° generally. Maxima below 65° were also registered in France and central Europe, and readings above 70° were less numerous than during the preceding days. At Bucharest the maximum was 88°, at Athens 86°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 20TH SEPTEMBER, 1913.



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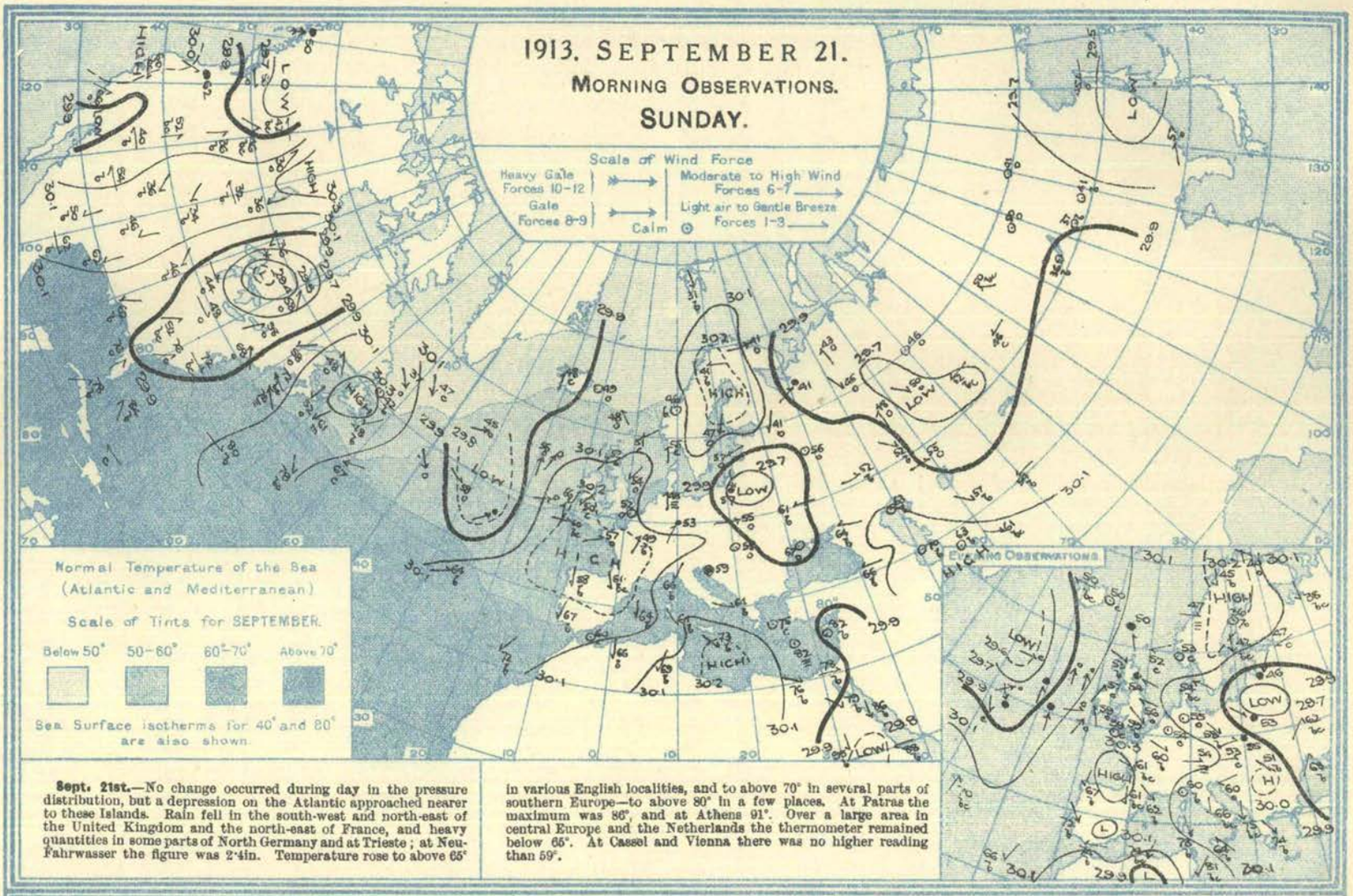
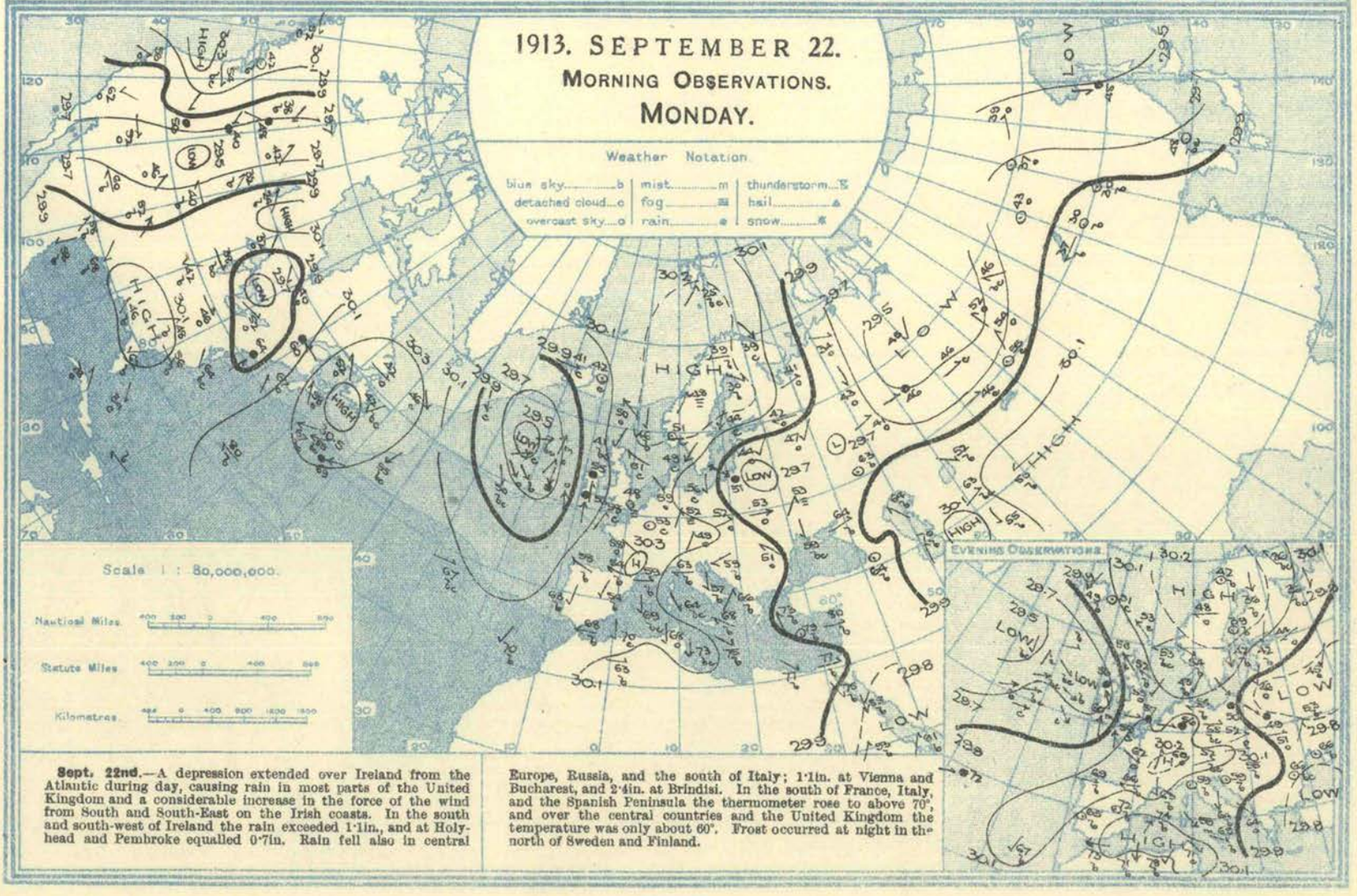
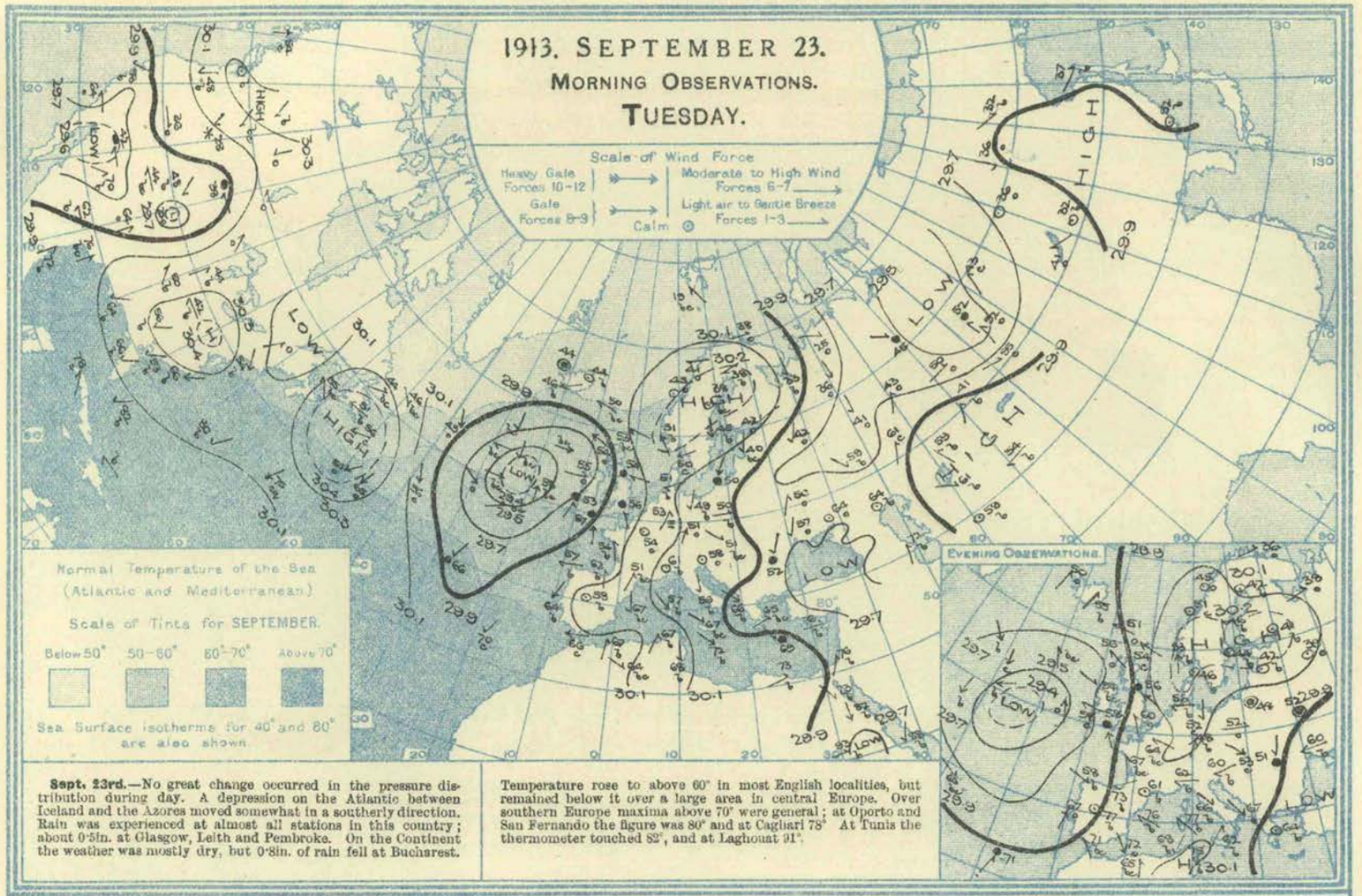


Sept. 21st.—No change occurred during day in the pressure distribution, but a depression on the Atlantic approached nearer to these Islands. Rain fell in the south-west and north-east of the United Kingdom and the north-east of France, and heavy quantities in some parts of North Germany and at Trieste; at Neu-Fahrwasser the figure was 2·4in. Temperature rose to above 65° in various English localities, and to above 70° in several parts of southern Europe—to above 80° in a few places. At Patras the maximum was 86°, and at Athens 91°. Over a large area in central Europe and the Netherlands the thermometer remained below 65°. At Cassel and Vienna there was no higher reading than 59°.

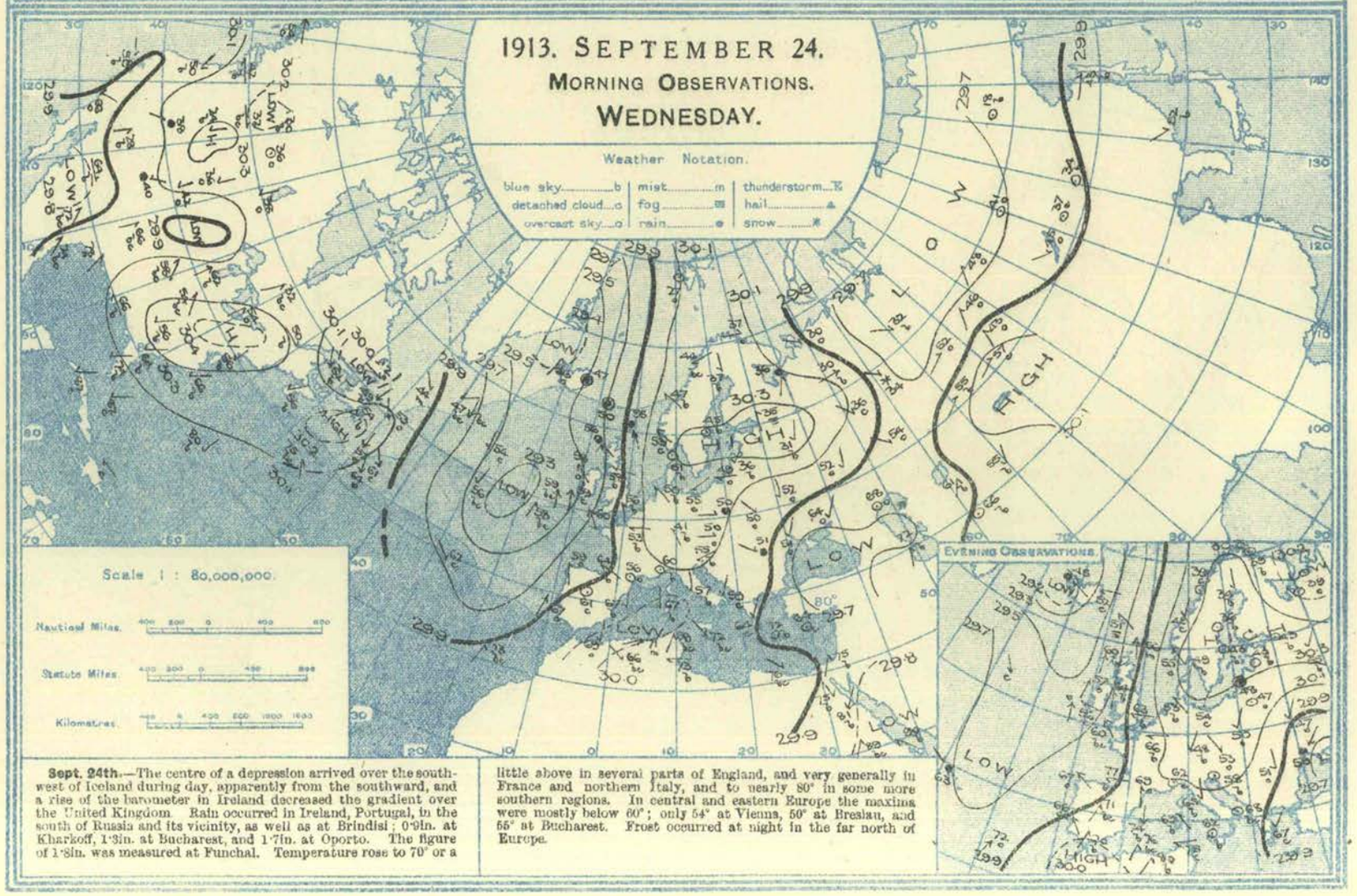


Sept. 22nd.—A depression extended over Ireland from the Atlantic during day, causing rain in most parts of the United Kingdom and a considerable increase in the force of the wind from South and South-East on the Irish coasts. In the south and south-west of Ireland the rain exceeded 1·1in., and at Holyhead and Pembroke equalled 0·7in. Rain fell also in central Europe, Russia, and the south of Italy; 1·1in. at Vienna and Bucharest, and 2·4in. at Brindisi. In the south of France, Italy, and the Spanish Peninsula the thermometer rose to above 70°, and over the central countries and the United Kingdom the temperature was only about 60°. Frost occurred at night in the north of Sweden and Finland.

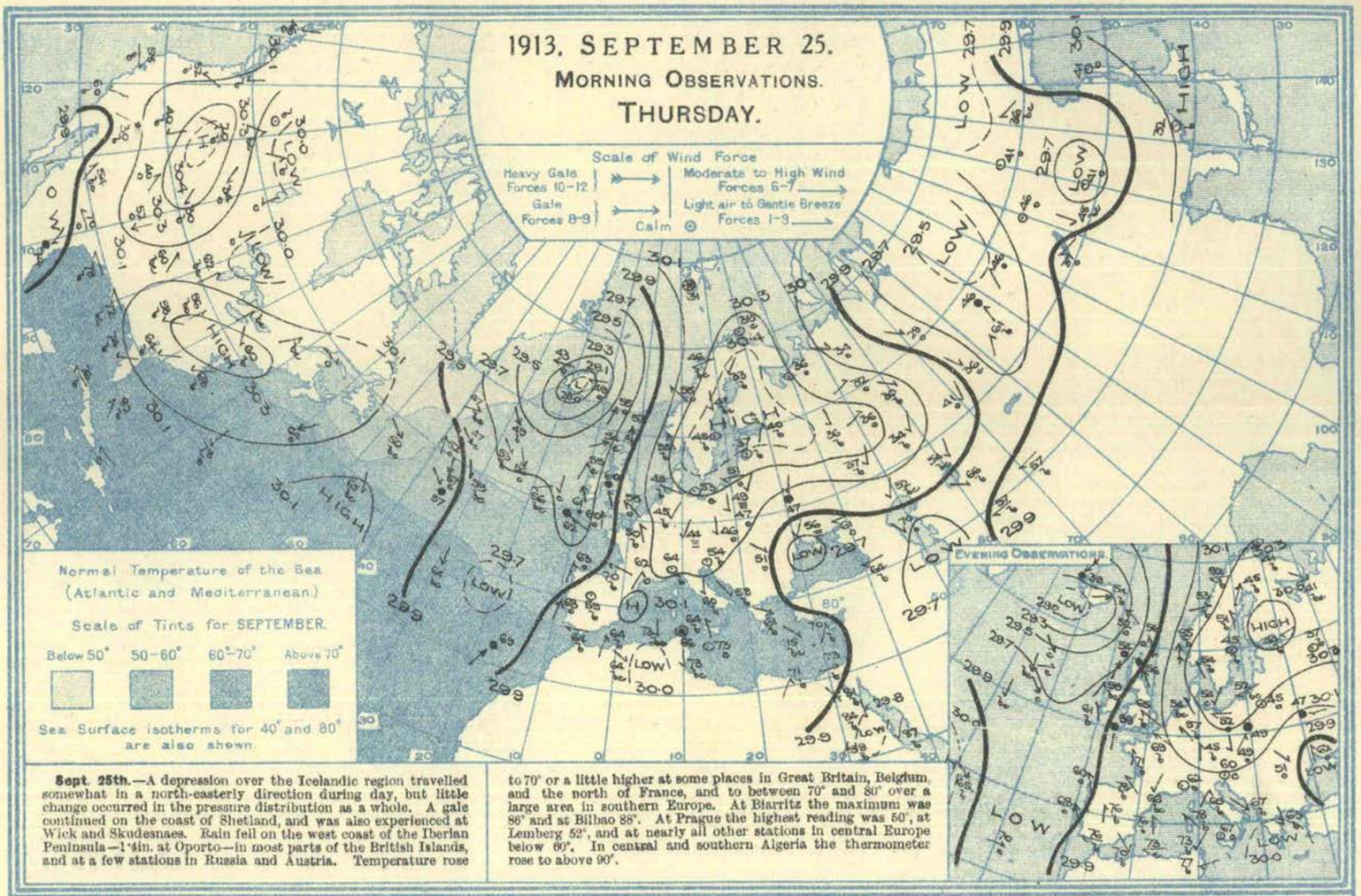


Sept. 23rd.—No great change occurred in the pressure distribution during day. A depression on the Atlantic between Iceland and the Azores moved somewhat in a southerly direction. Rain was experienced at almost all stations in this country; about 0·5in. at Glasgow, Leith and Pembroke. On the Continent the weather was mostly dry, but 0·8in. of rain fell at Bucharest.

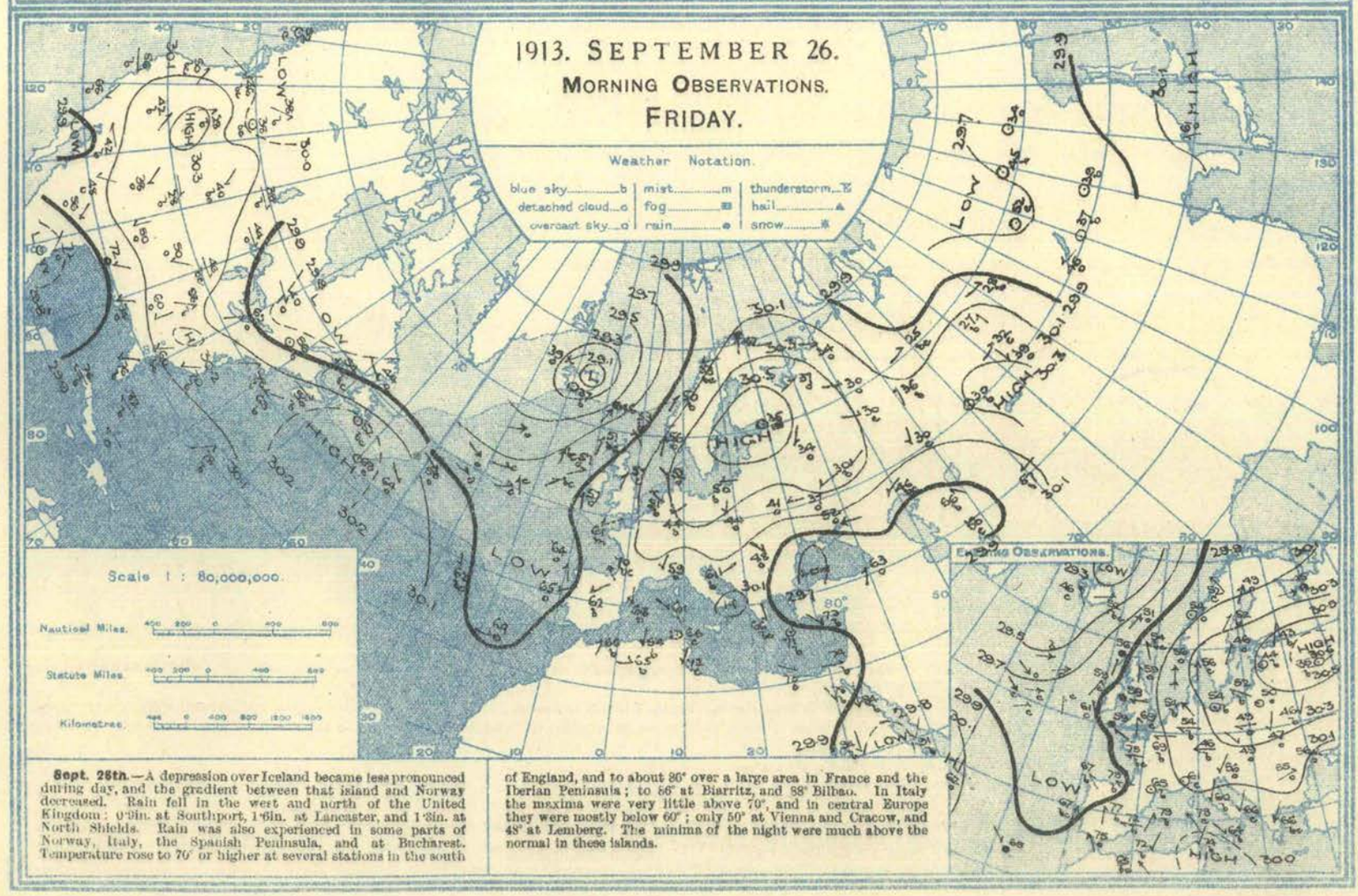
Temperature rose to above 60° in most English localities, but remained below it over a large area in central Europe. Over southern Europe maxima above 70° were general; at Oporto and San Fernando the figure was 80° and at Cagliari 78° At Tunis the thermometer touched 82°, and at Laghouat 91°.



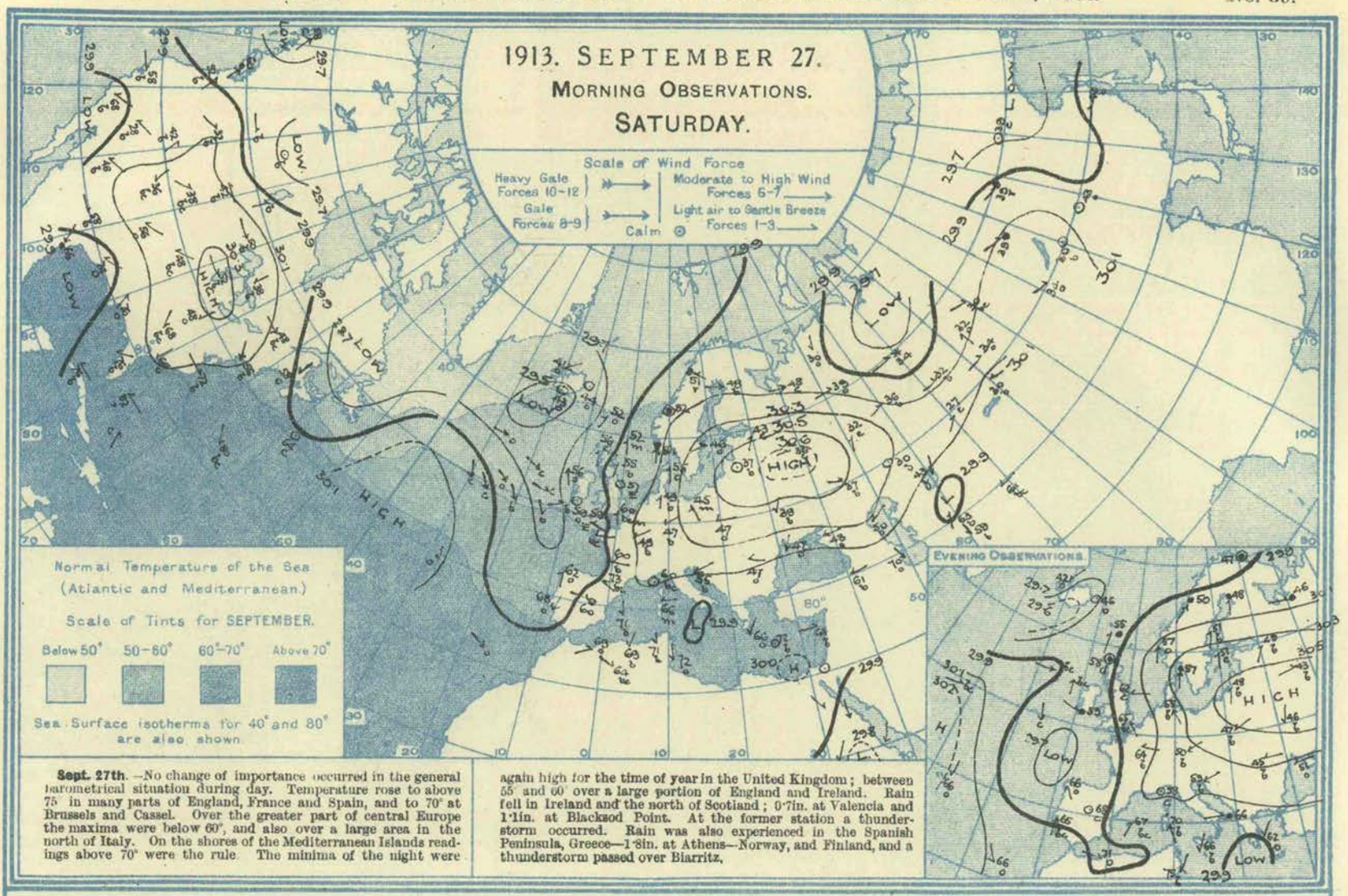
Sept. 24th.—The centre of a depression arrived over the south-west of Iceland during day, apparently from the southward, and a rise of the barometer in Ireland decreased the gradient over the United Kingdom. Rain occurred in Ireland, Portugal, in the south of Russia and its vicinity, as well as at Brindisi; 0·9in. at Kharkoff, 1·3in. at Bucharest, and 1·7in. at Oporto. The figure of 1·8in. was measured at Funchal. Temperature rose to 70° or a little above in several parts of England, and very generally in France and northern Italy, and to nearly 80° in some more southern regions. In central and eastern Europe the maxima were mostly below 60°; only 54° at Vienna, 50° at Breslau, and 55° at Bucharest. Frost occurred at night in the far north of Europe.



Sept. 25th.—A depression over the Icelandic region travelled somewhat in a north-easterly direction during day, but little change occurred in the pressure distribution as a whole. A gale continued on the coast of Shetland, and was also experienced at Wick and Skudesnaes. Rain fell on the west coast of the Iberian Peninsula—1·4in. at Oporto—in most parts of the British Islands, and at a few stations in Russia and Austria. Temperature rose to 70° or a little higher at some places in Great Britain, Belgium, and the north of France, and to between 70° and 80° over a large area in southern Europe. At Biarritz the maximum was 86° and at Bilbao 88°. At Prague the highest reading was 50°, at Lemberg 52°, and at nearly all other stations in central Europe below 60°. In central and southern Algeria the thermometer rose to above 90°.

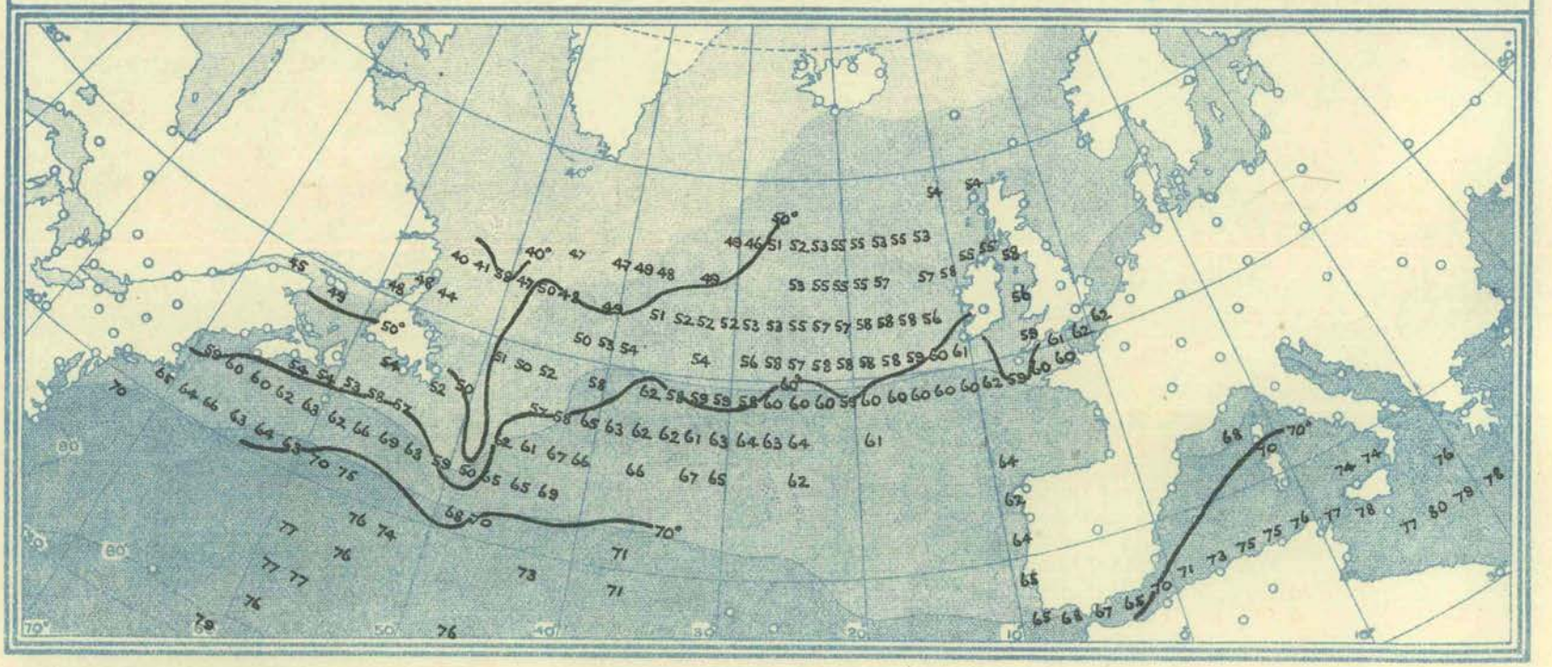


Sept. 26th.—A depression over Iceland became less pronounced during day, and the gradient between that island and Norway decreased. Rain fell in the west and north of the United Kingdom: 0·9in. at Southport, 1·6in. at Lancaster, and 1·3in. at North Shields. Rain was also experienced in some parts of Norway, Italy, the Spanish Peninsula, and at Bucharest. Temperature rose to 70° or higher at several stations in the south of England, and to about 86° over a large area in France and the Iberian Peninsula; to 86° at Biarritz, and 88° Bilbao. In Italy the maxima were very little above 70°, and in central Europe they were mostly below 60°; only 50° at Vienna and Cracow, and 48° at Lemberg. The minima of the night were much above the normal in these islands.



Sept. 27th.—No change of importance occurred in the general barometrical situation during day. Temperature rose to above 75° in many parts of England, France and Spain, and to 70° at Brussels and Cassel. Over the greater part of central Europe the maxima were below 60°, and also over a large area in the north of Italy. On the shores of the Mediterranean Islands readings above 70° were the rule. The minima of the night were again high for the time of year in the United Kingdom; between 55° and 60° over a large portion of England and Ireland. Rain fell in Ireland and the north of Scotland; 0·7in. at Valencia and 1·1in. at Blacksod Point. At the former station a thunderstorm occurred. Rain was also experienced in the Spanish Peninsula, Greece—1·8in. at Athens—Norway, and Finland, and a thunderstorm passed over Biarritz.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 27TH SEPTEMBER, 1913.



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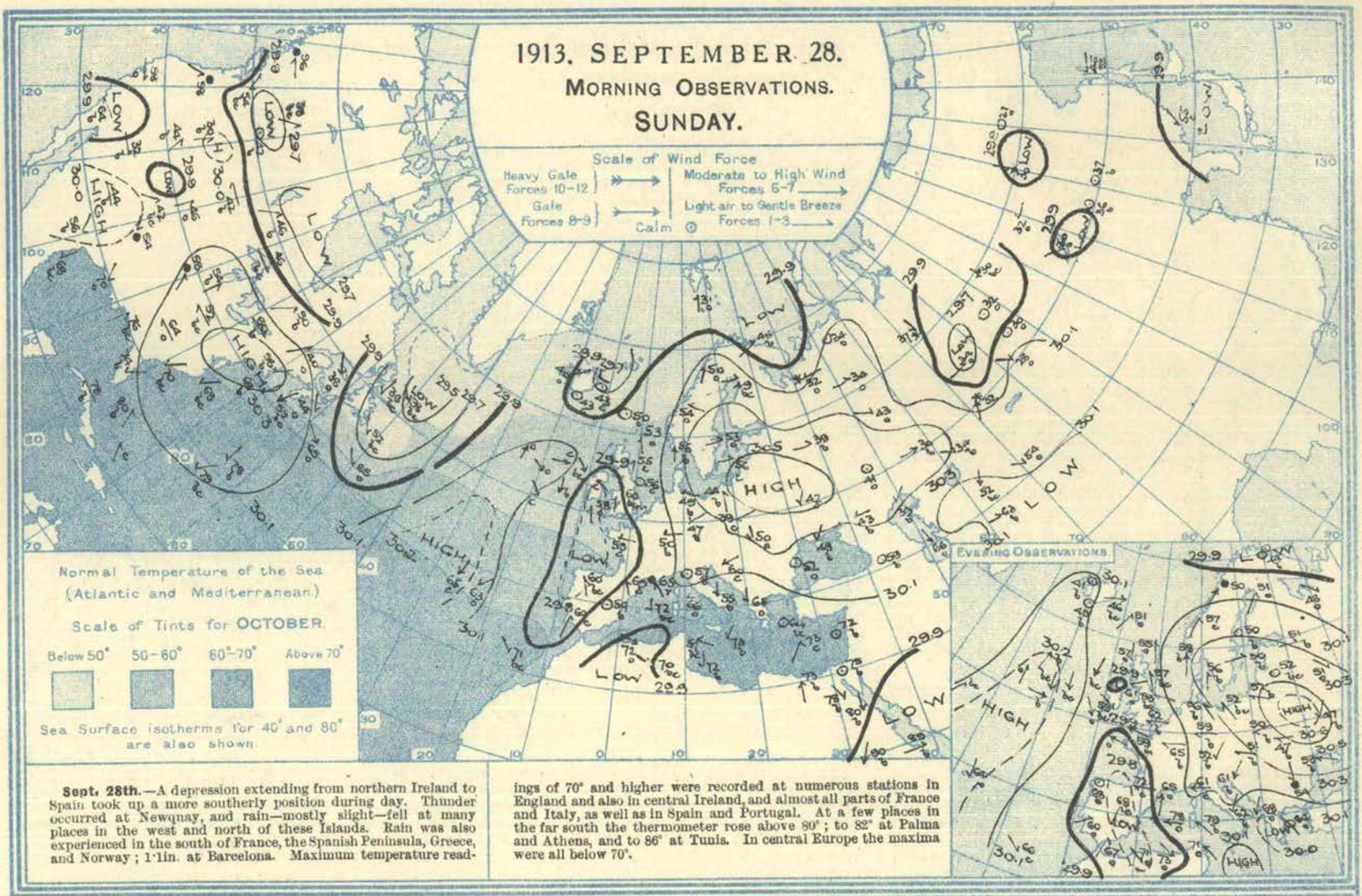
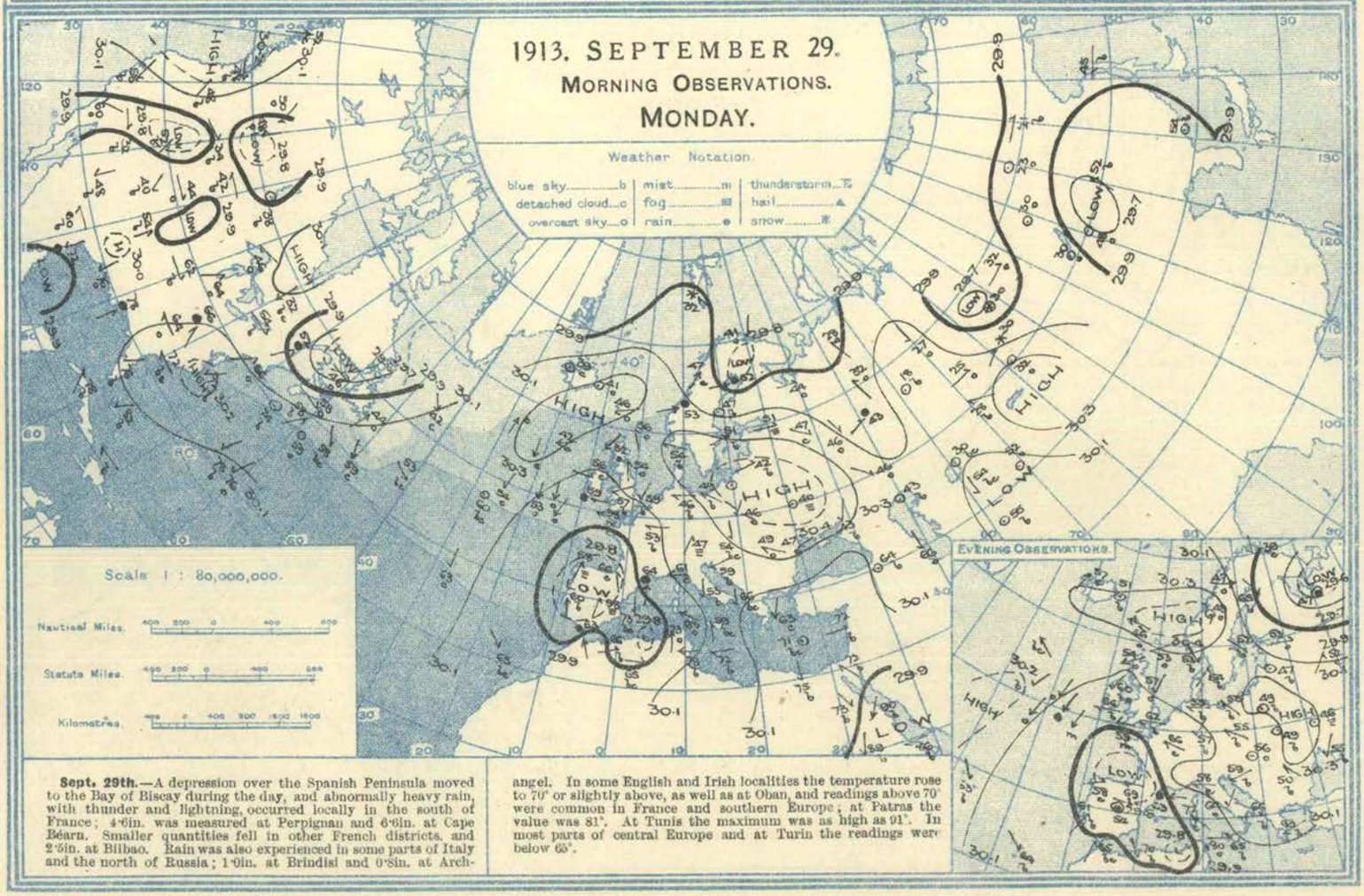
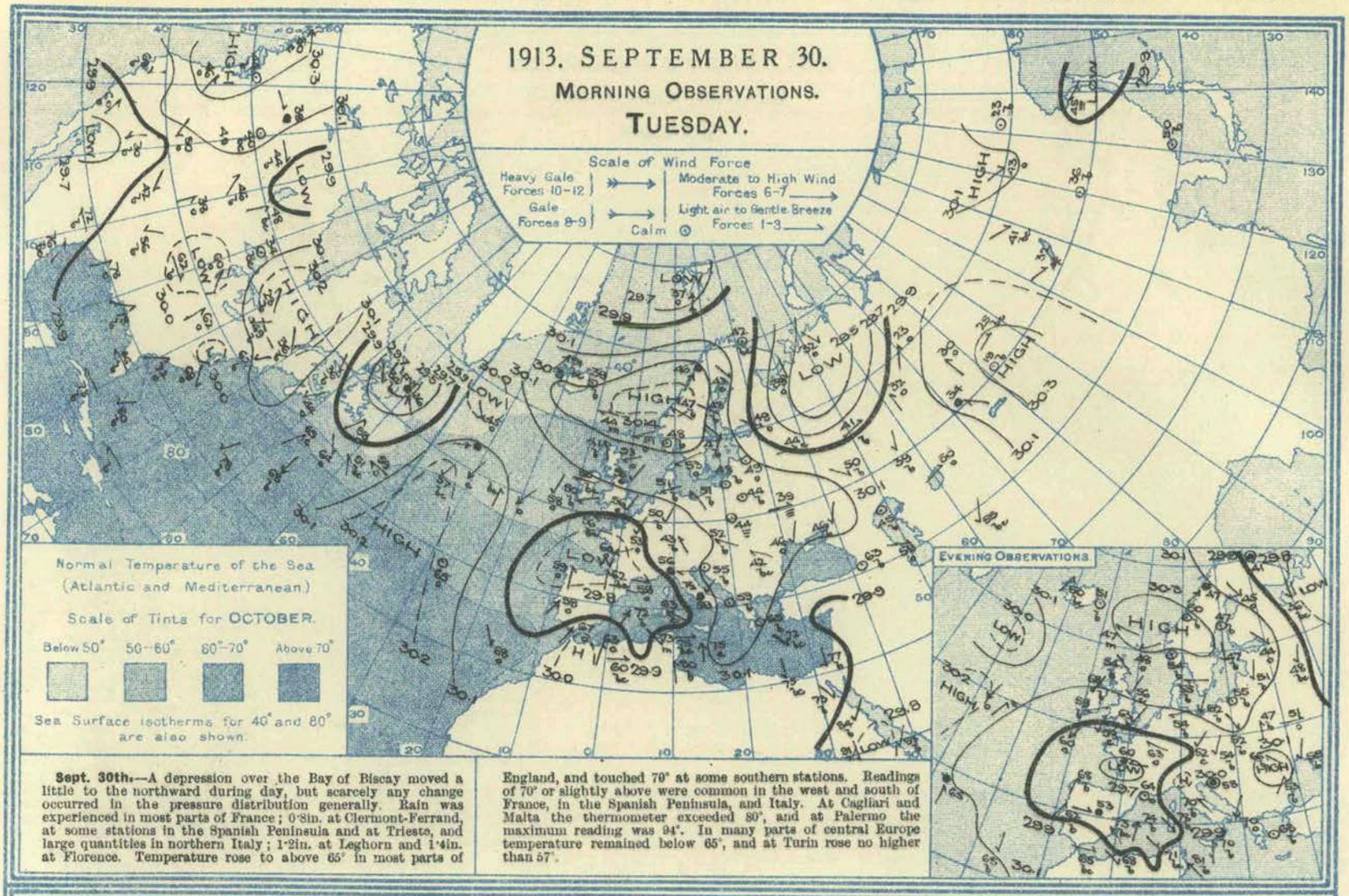


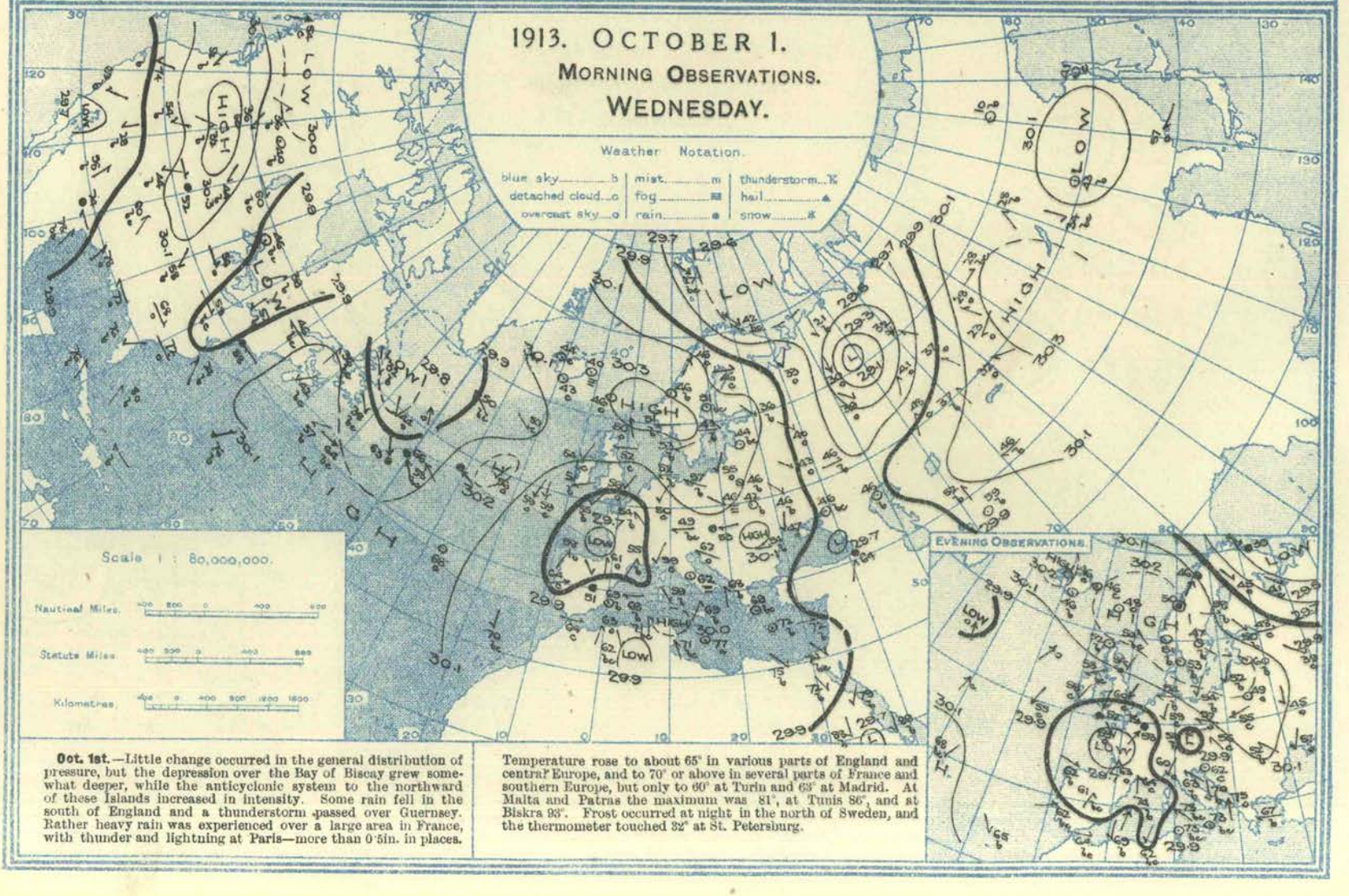
Sept. 28th.—A depression extending from northern Ireland to Spain took up a more southerly position during day. Thunder occurred at Newquay, and rain—mostly slight—fell at many places in the west and north of these Islands. Rain was also experienced in the south of France, the Spanish Peninsula, Greece, and Norway; 1·1in. at Barcelona. Maximum temperature readings of 70° and higher were recorded at numerous stations in England and also in central Ireland, and almost all parts of France and Italy, as well as in Spain and Portugal. At a few places in the far south the thermometer rose above 80°; to 82° at Palma and Athens, and to 86° at Tunis. In central Europe the maxima were all below 70°.



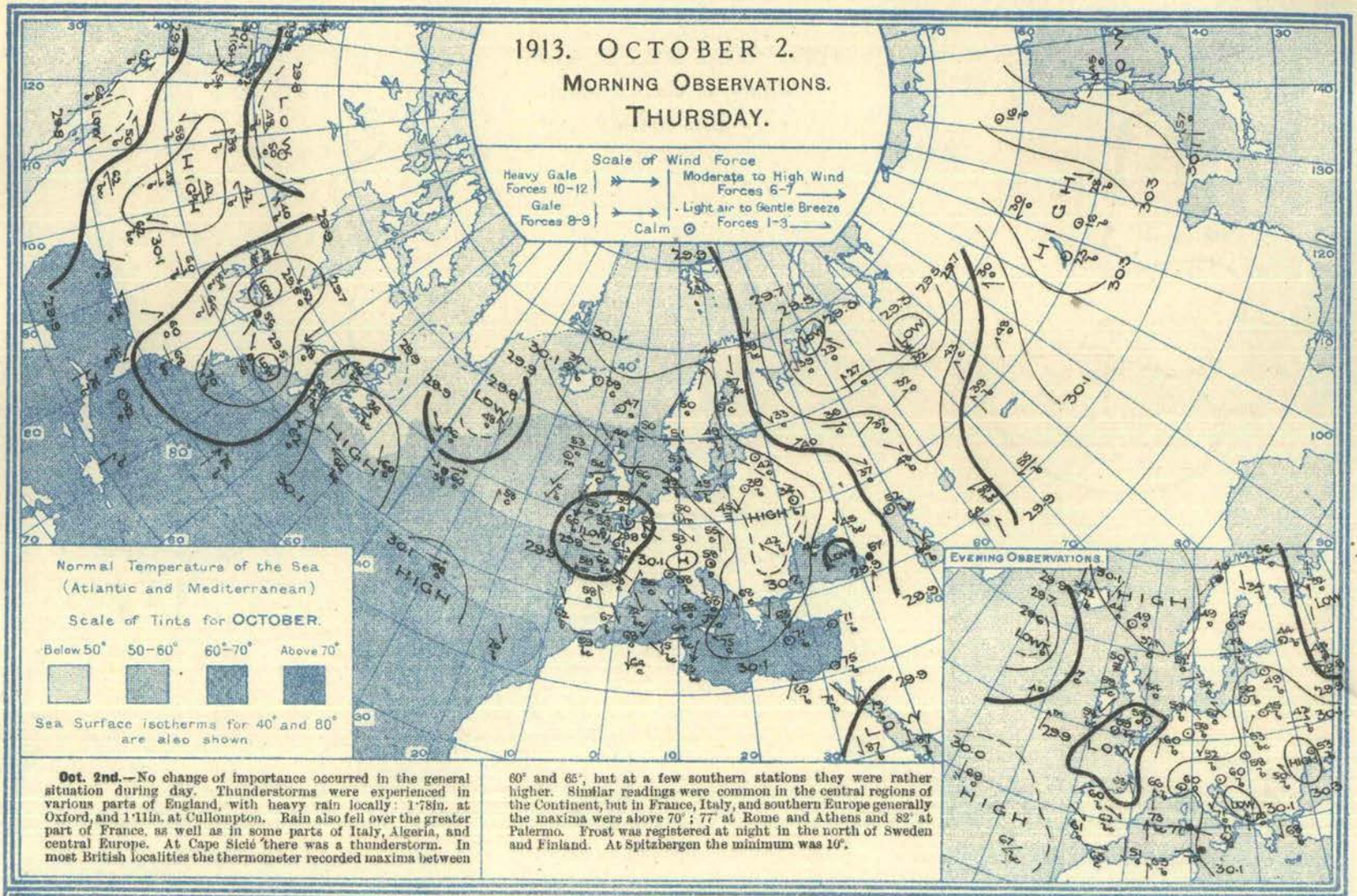
Sept. 29th.—A depression over the Spanish Peninsula moved to the Bay of Biscay during the day, and abnormally heavy rain, with thunder and lightning, occurred locally in the south of France; 4·6in. was measured at Perpignan and 6·6in. at Cape Béarn. Smaller quantities fell in other French districts, and 2·5in. at Bilbao. Rain was also experienced in some parts of Italy and the north of Russia; 1·0in. at Brindisi and 0·8in. at Archangel. In some English and Irish localities the temperature rose to 70° or slightly above, as well as at Oban, and readings above 70° were common in France and southern Europe; at Patras the value was 81°. At Tunis the maximum was as high as 91°. In most parts of central Europe and at Turin the readings were below 65°.



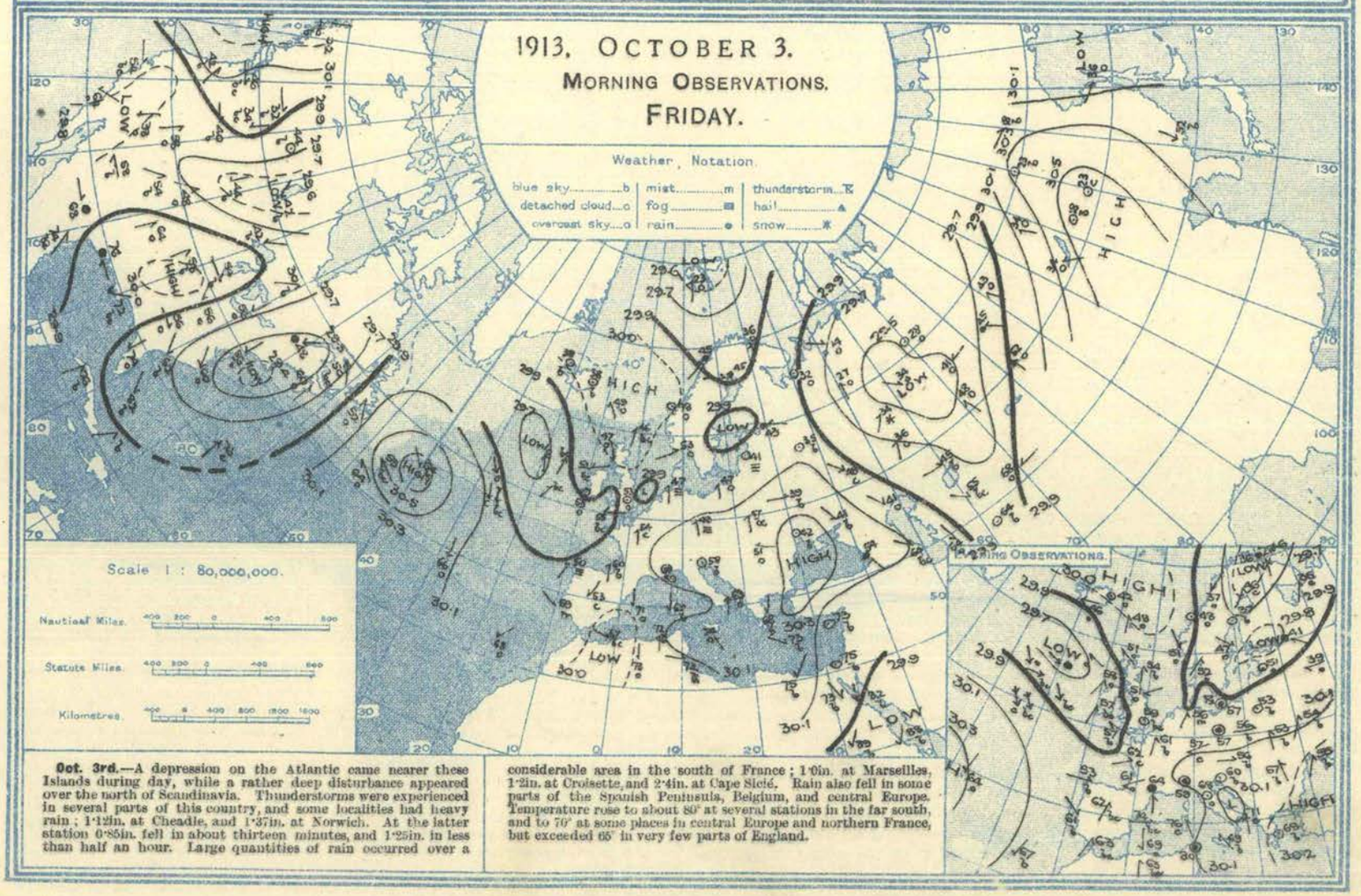
Sept. 30th.—A depression over the Bay of Biscay moved a little to the northward during day, but scarcely any change occurred in the pressure distribution generally. Rain was experienced in most parts of France; 0·8in. at Clermont-Ferrand, at some stations in the Spanish Peninsula and at Trieste, and large quantities in northern Italy; 1·2in. at Leghorn and 1·4in. at Florence. Temperature rose to above 65° in most parts of England, and touched 70° at some southern stations. Readings of 70° or slightly above were common in the west and south of France, in the Spanish Peninsula, and Italy. At Cagliari and Malta the thermometer exceeded 80°, and at Palermo the maximum reading was 94°. In many parts of central Europe temperature remained below 65°, and at Turin rose no higher than 57°.



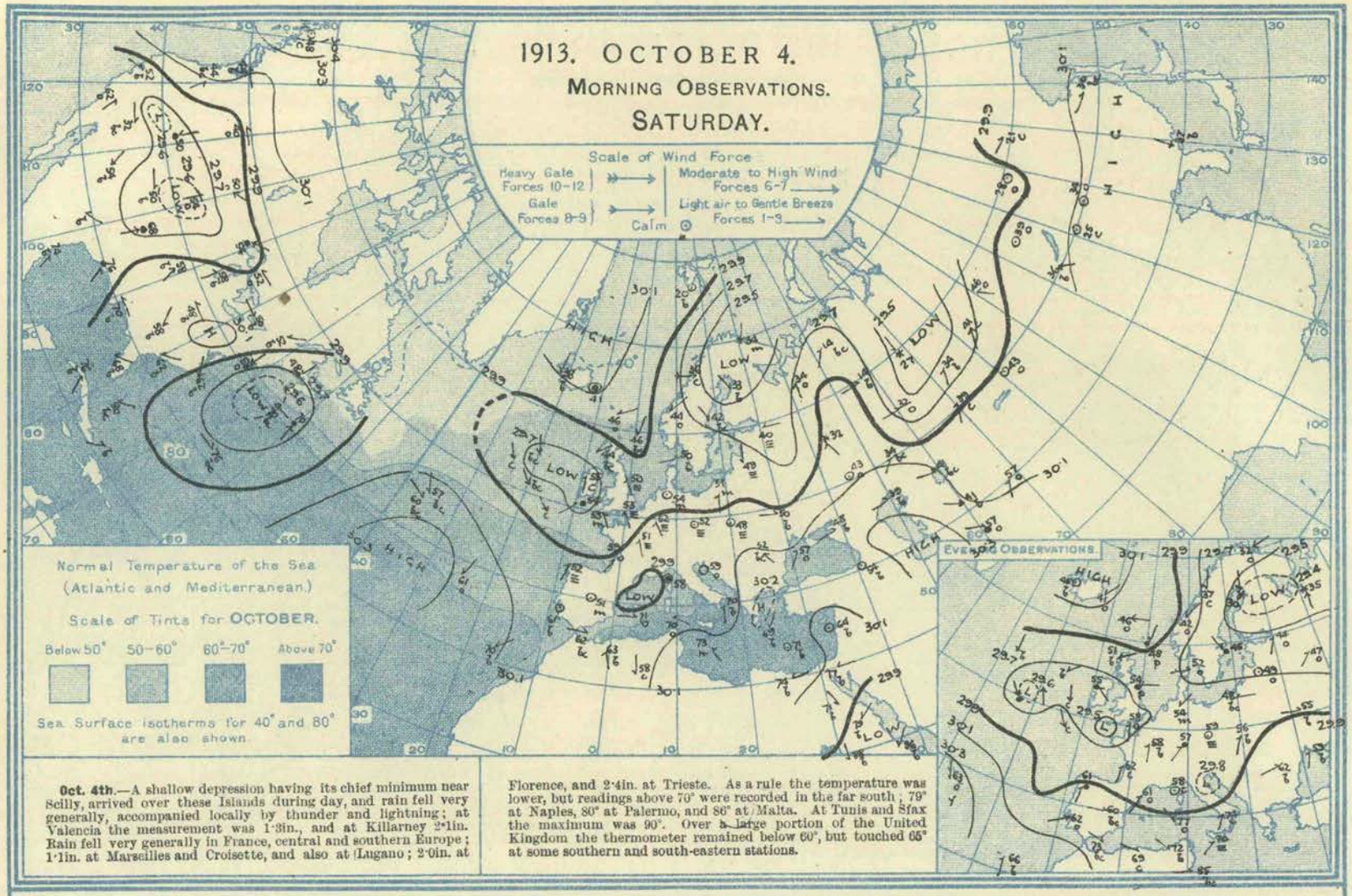
Oct. 1st.—Little change occurred in the general distribution of pressure, but the depression over the Bay of Biscay grew somewhat deeper, while the anticyclonic system to the northward of these Islands increased in intensity. Some rain fell in the south of England and a thunderstorm passed over Guernsey. Rather heavy rain was experienced over a large area in France, with thunder and lightning at Paris—more than 0·5in. in places. Temperature rose to about 65° in various parts of England and central Europe, and to 70° or above in several parts of France and southern Europe, but only to 60° at Turin and 63° at Madrid. At Malta and Patras the maximum was 81°, at Tunis 86°, and at Biskra 93°. Frost occurred at night in the north of Sweden, and the thermometer touched 32° at St. Petersburg.



Oct. 2nd.—No change of importance occurred in the general situation during day. Thunderstorms were experienced in various parts of England, with heavy rain locally: 1·78in. at Oxford, and 1·11in. at Cullompton. Rain also fell over the greater part of France, as well as in some parts of Italy, Algeria, and central Europe. At Cape Sicié there was a thunderstorm. In most British localities the thermometer recorded maxima between 60° and 65°, but at a few southern stations they were rather higher. Similar readings were common in the central regions of the Continent, but in France, Italy, and southern Europe generally the maxima were above 70°; 77° at Rome and Athens and 82° at Palermo. Frost was registered at night in the north of Sweden and Finland. At Spitzbergen the minimum was 16°.

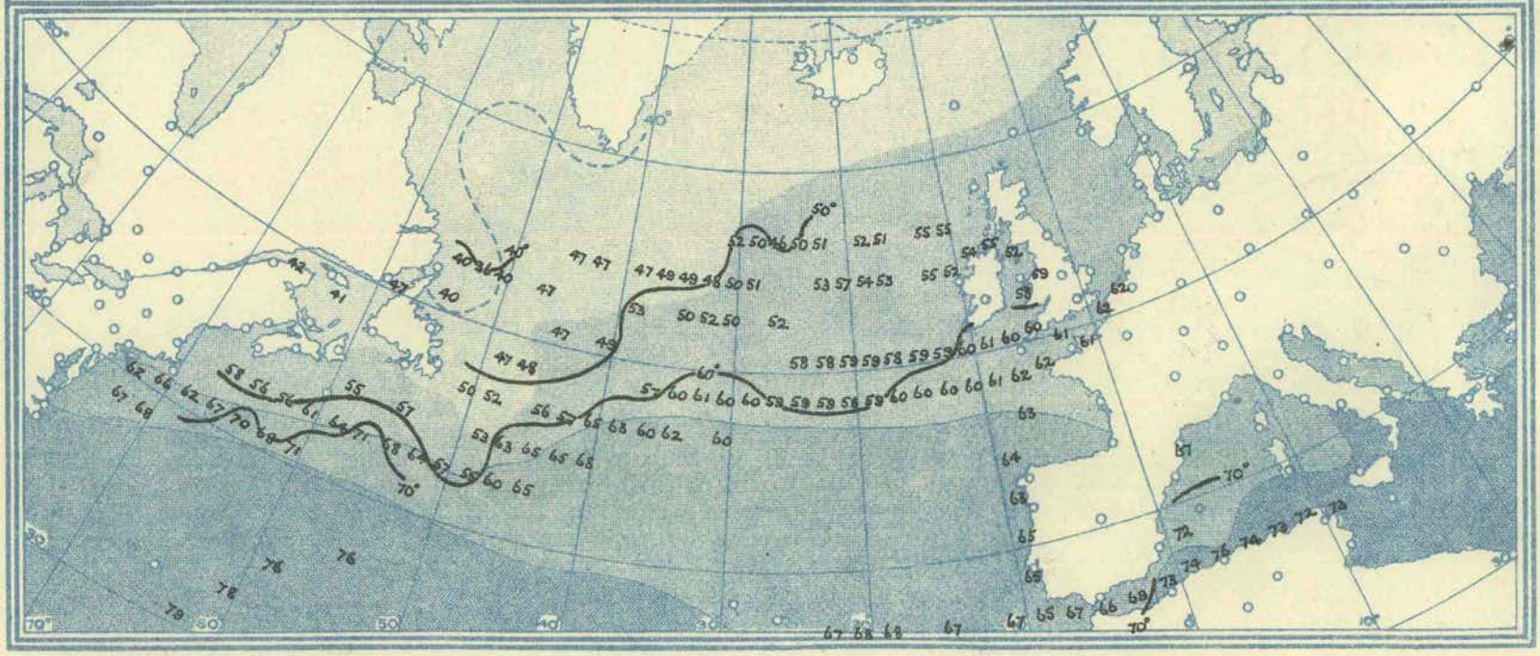


Oct. 3rd.—A depression on the Atlantic came nearer these Islands during day, while a rather deep disturbance appeared over the north of Scandinavia. Thunderstorms were experienced in several parts of this country, and some localities had heavy rain; 1·12in. at Cheadle, and 1·37in. at Norwich. At the latter station 0·85in. fell in about thirteen minutes, and 1·25in. in less than half an hour. Large quantities of rain occurred over a considerable area in the south of France; 1·0in. at Marseilles, 1·2in. at Croisette, and 2·4in. at Cape Sicié. Rain also fell in some parts of the Spanish Peninsula, Belgium, and central Europe. Temperature rose to about 80° at several stations in the far south, and to 70° at some places in central Europe and northern France, but exceeded 65° in very few parts of England.



Oct. 4th.—A shallow depression having its chief minimum near Scilly, arrived over these Islands during day, and rain fell very generally, accompanied locally by thunder and lightning; at Valencia the measurement was 1·3in., and at Killarney 2·1in. Rain fell very generally in France, central and southern Europe; 1·1in. at Marseilles and Croisette, and also at Lugano; 2·0in. at Florence, and 2·4in. at Trieste. As a rule the temperature was lower, but readings above 70° were recorded in the far south; 79° at Naples, 80° at Palermo, and 86° at Malta. At Tunis and Sfax the maximum was 90°. Over a large portion of the United Kingdom the thermometer remained below 60°, but touched 65° at some southern and south-eastern stations.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 4TH. OCTOBER, 1913.



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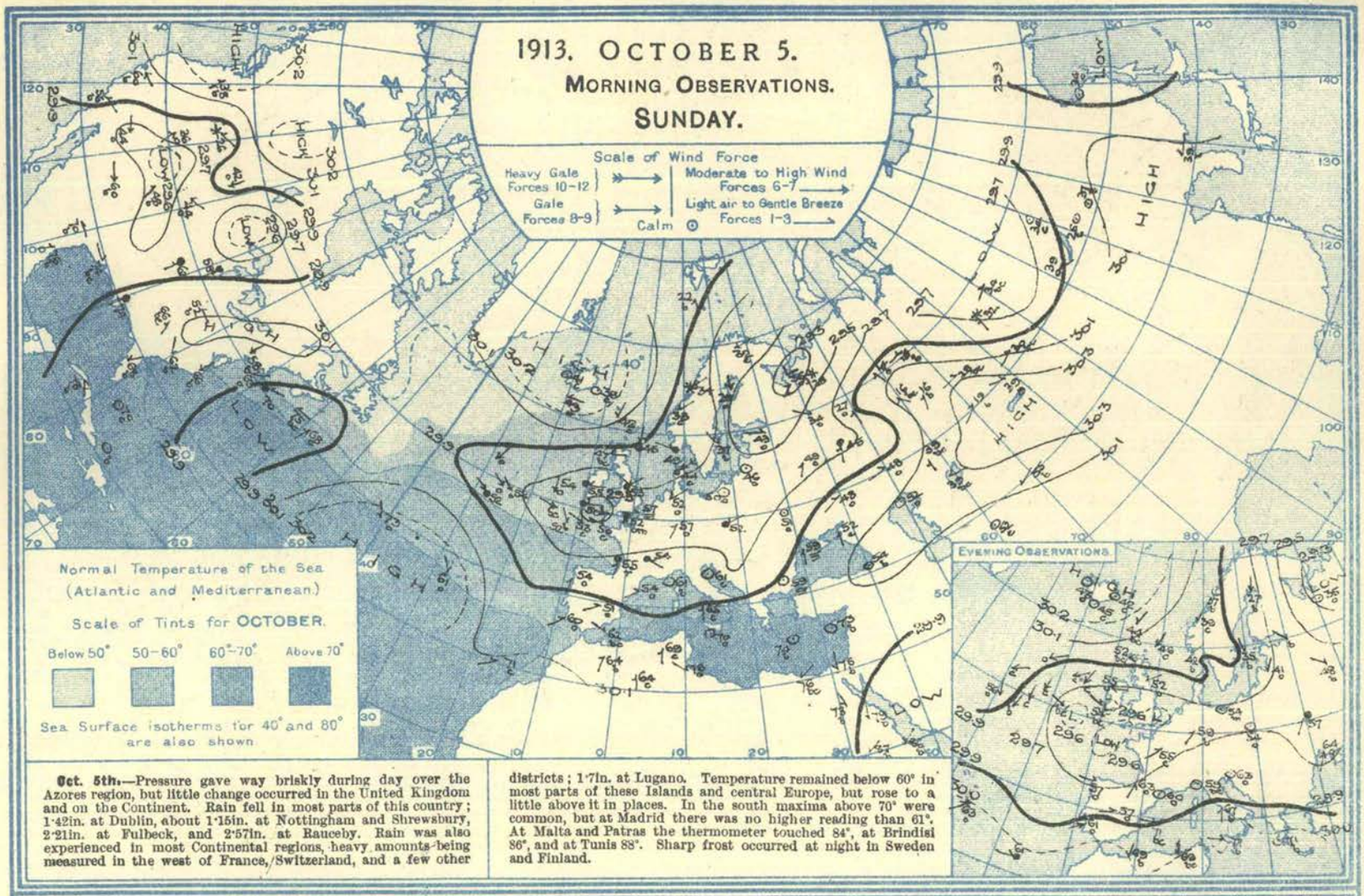
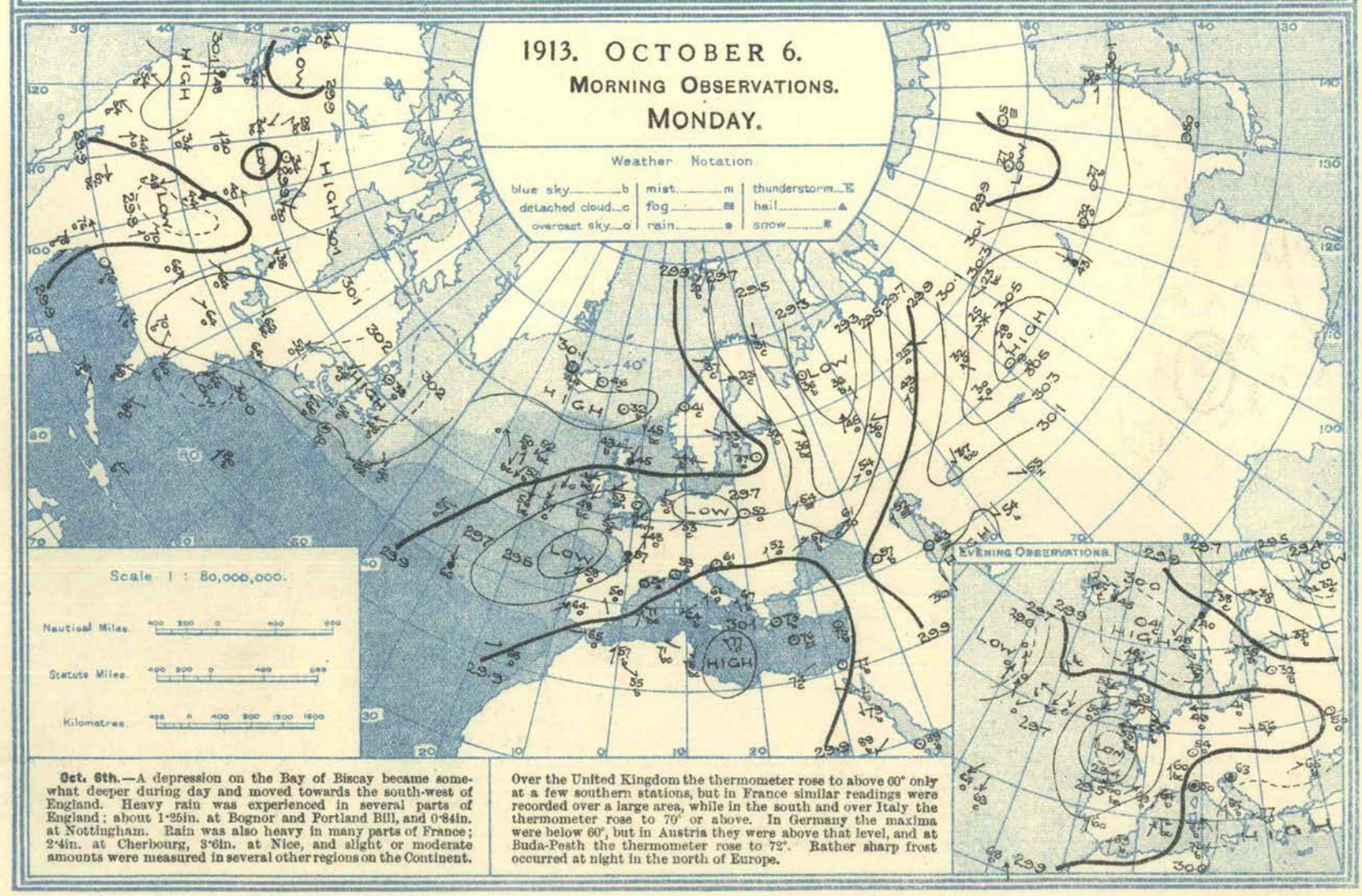
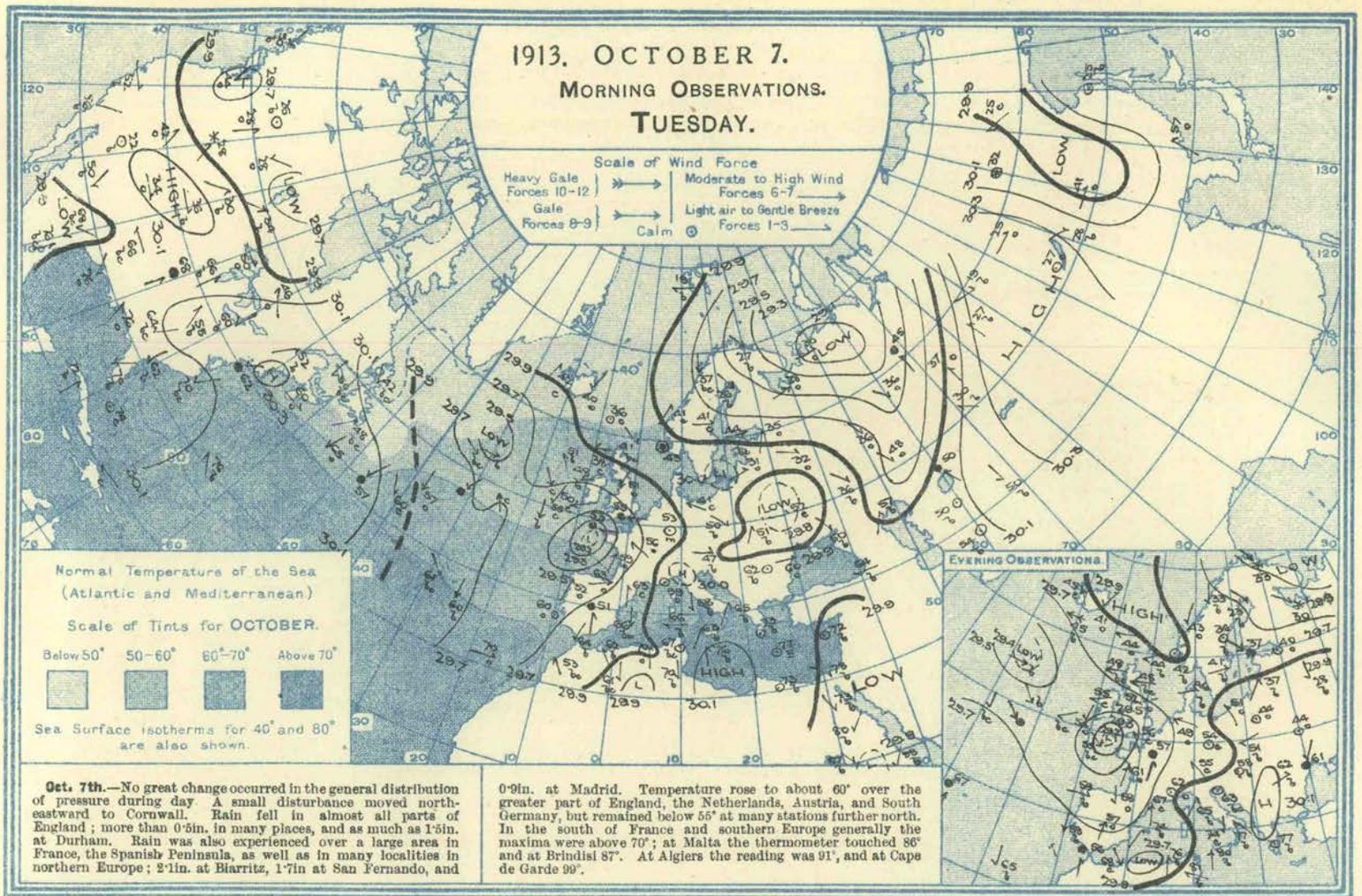


Oct. 5th.—Pressure gave way briskly during day over the Azores region, but little change occurred in the United Kingdom and on the Continent. Rain fell in most parts of this country; 1·42in. at Dublin, about 1·15in. at Nottingham and Shrewsbury, 2·21in. at Fulbeck, and 2·57in. at Rauceby. Rain was also experienced in most Continental regions, heavy amounts being measured in the west of France, Switzerland, and a few other districts; 1·7in. at Lugano. Temperature remained below 60° in most parts of these Islands and central Europe, but rose to a little above it in places. In the south maxima above 70° were common, but at Madrid there was no higher reading than 61°. At Malta and Patras the thermometer touched 84°, at Brindisi 86°, and at Tunis 88°. Sharp frost occurred at night in Sweden and Finland.

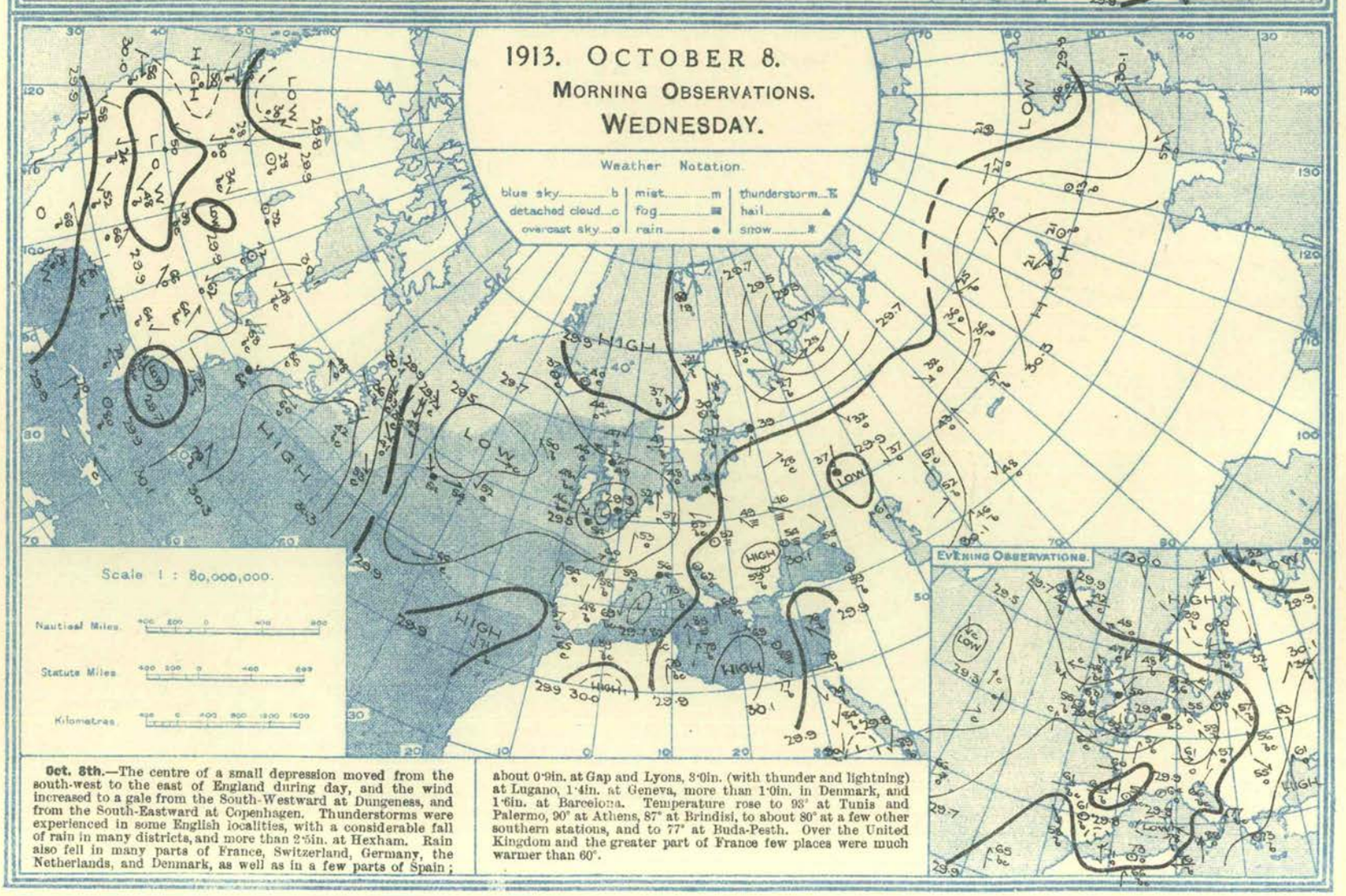


Oct. 6th.—A depression on the Bay of Biscay became somewhat deeper during day and moved towards the south-west of England. Heavy rain was experienced in several parts of England; about 1·25in. at Bognor and Portland Bill, and 0·84in. at Nottingham. Rain was also heavy in many parts of France; 2·4in. at Cherbourg, 3·6in. at Nice, and slight or moderate amounts were measured in several other regions on the Continent.

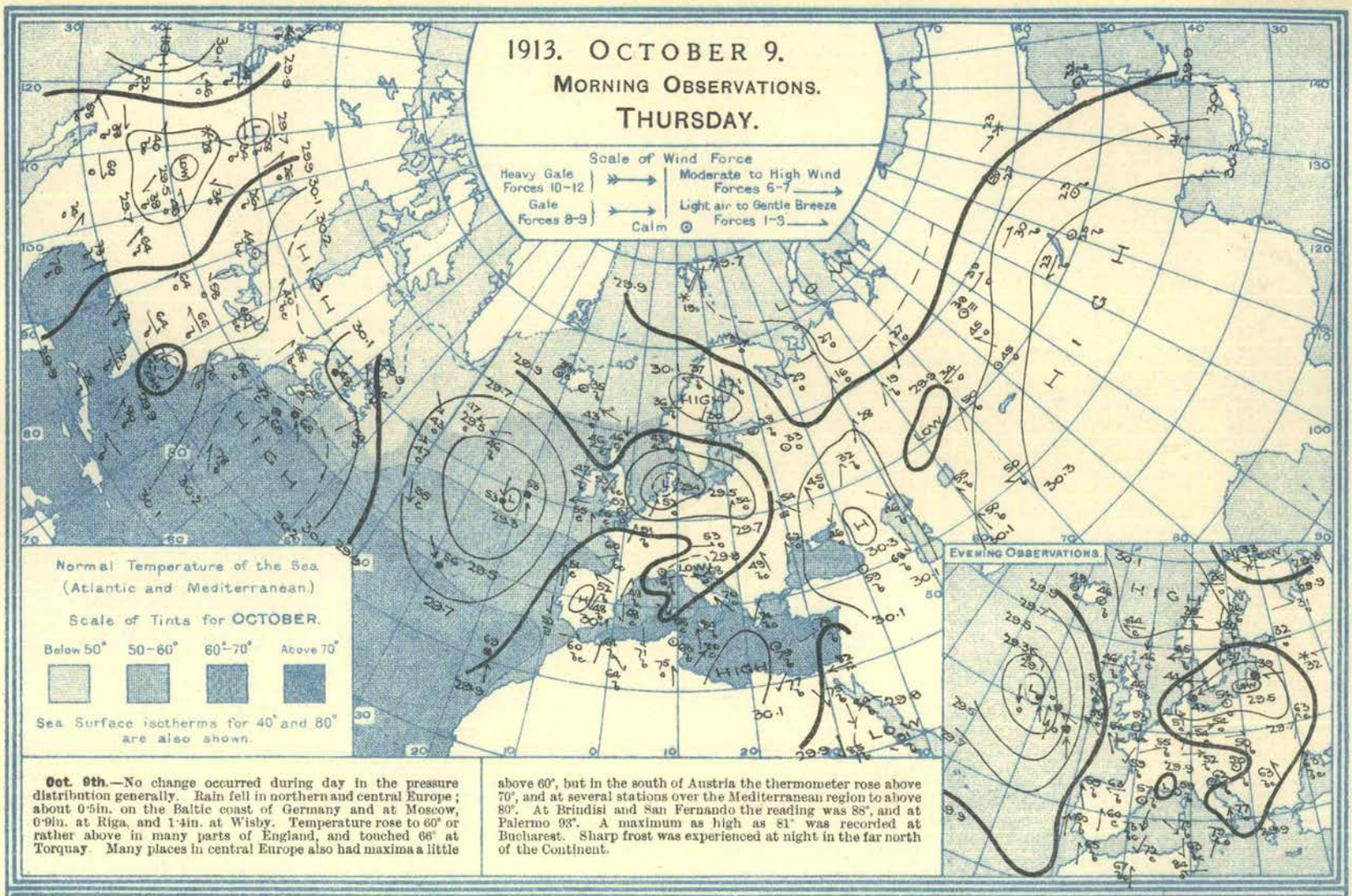
Over the United Kingdom the thermometer rose to above 60° only at a few southern stations, but in France similar readings were recorded over a large area, while in the south and over Italy the thermometer rose to 70° or above. In Germany the maxima were below 60°, but in Austria they were above that level, and at Buda-Pesth the thermometer rose to 72°. Rather sharp frost occurred at night in the north of Europe.



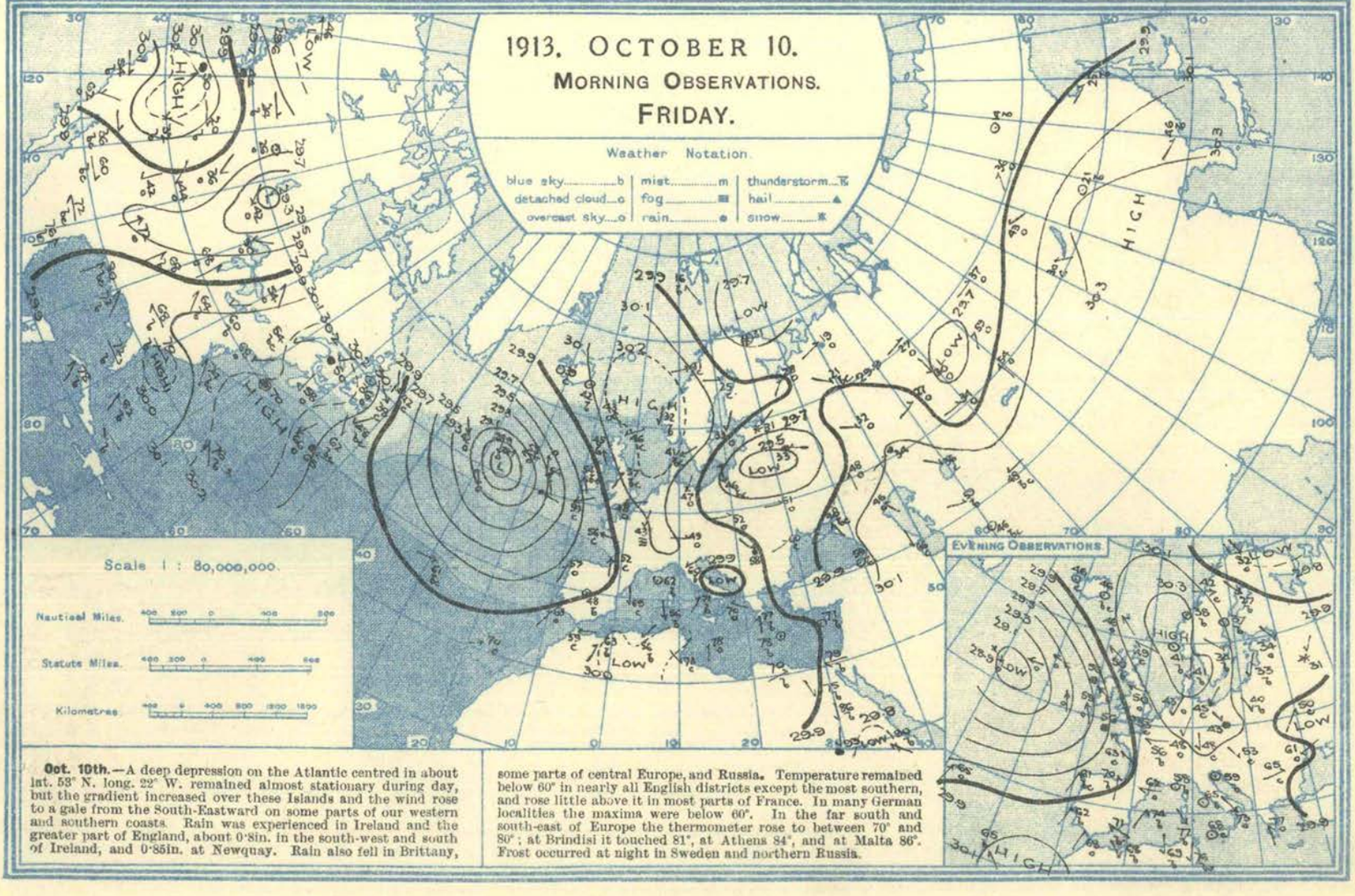
Oct. 7th.—No great change occurred in the general distribution of pressure during day. A small disturbance moved north-eastward to Cornwall. Rain fell in almost all parts of England; more than 0·5in. in many places, and as much as 1·5in. at Durham. Rain was also experienced over a large area in France, the Spanish Peninsula, as well as in many localities in northern Europe; 2·1in. at Biarritz, 1·7in at San Fernando, and 0·9in. at Madrid. Temperature rose to about 60° over the greater part of England, the Netherlands, Austria, and South Germany, but remained below 55° at many stations further north. In the south of France and southern Europe generally the maxima were above 70°; at Malta the thermometer touched 86° and at Brindisi 87°. At Algiers the reading was 91°, and at Cape de Garde 99°.



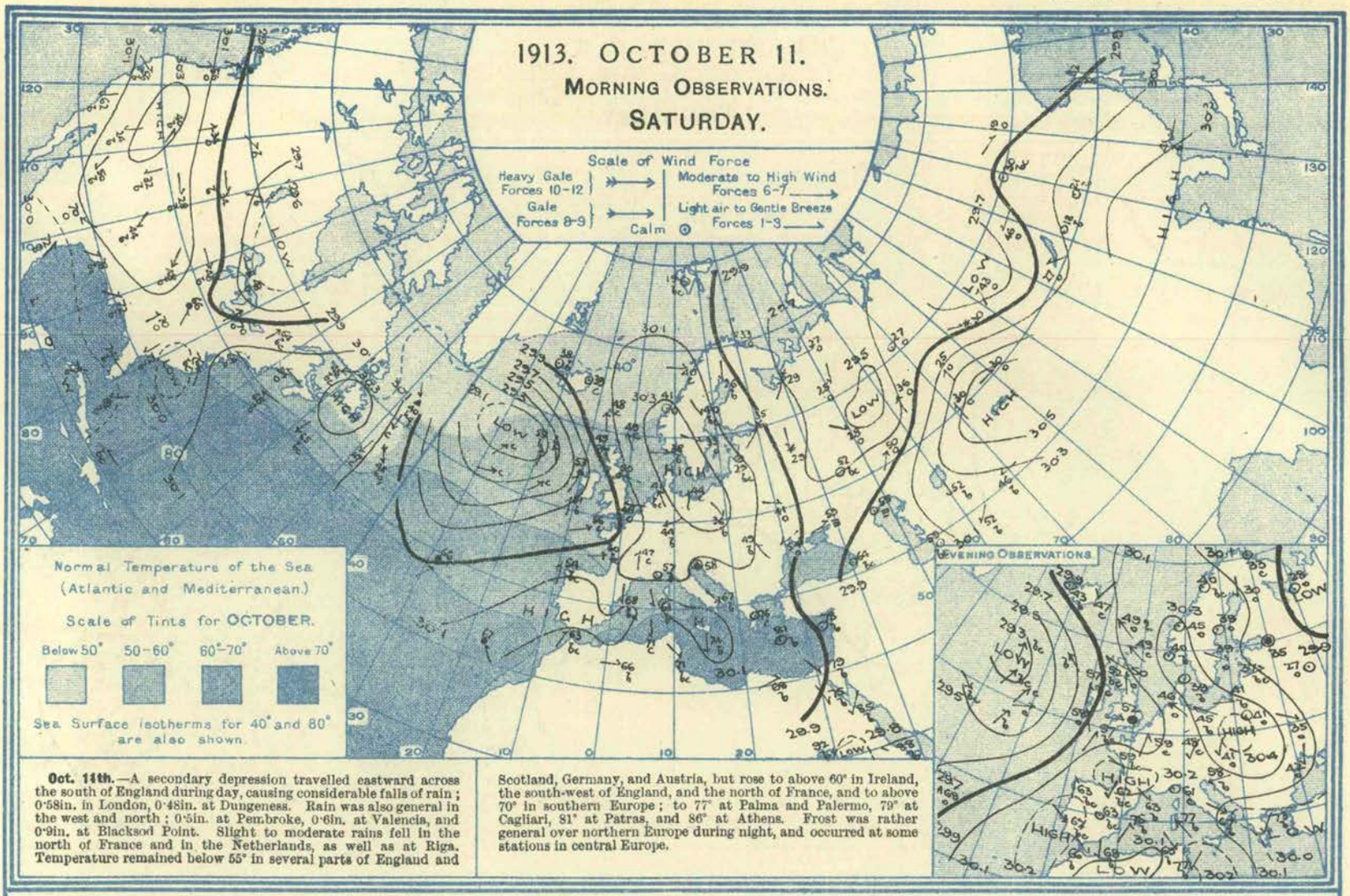
Oct. 8th.—The centre of a small depression moved from the south-west to the east of England during day, and the wind increased to a gale from the South-Westward at Dungeness, and from the South-Eastward at Copenhagen. Thunderstorms were experienced in some English localities, with a considerable fall of rain in many districts, and more than 2·5in. at Hexham. Rain also fell in many parts of France, Switzerland, Germany, the Netherlands, and Denmark, as well as in a few parts of Spain; about 0·9in. at Gap and Lyons, 3·0in. (with thunder and lightning) at Lugano, 1·4in. at Geneva, more than 1·0in. in Denmark, and 1·6in. at Barcelona. Temperature rose to 93° at Tunis and Palermo, 90° at Athens, 87° at Brindisi, to about 80° at a few other southern stations, and to 77° at Buda-Pesth. Over the United Kingdom and the greater part of France few places were much warmer than 60°.



Oct. 9th.—No change occurred during day in the pressure distribution generally. Rain fell in northern and central Europe; about 0·5in. on the Baltic coast of Germany and at Moscow, 0·9in. at Riga, and 1·4in. at Wisby. Temperature rose to 60° or rather above in many parts of England, and touched 66° at Torquay. Many places in central Europe also had maxima a little above 60°, but in the south of Austria the thermometer rose above 70°, and at several stations over the Mediterranean region to above 80°. At Brindisi and San Fernando the reading was 88°, and at Palermo 93°. A maximum as high as 81° was recorded at Bucharest. Sharp frost was experienced at night in the far north of the Continent.

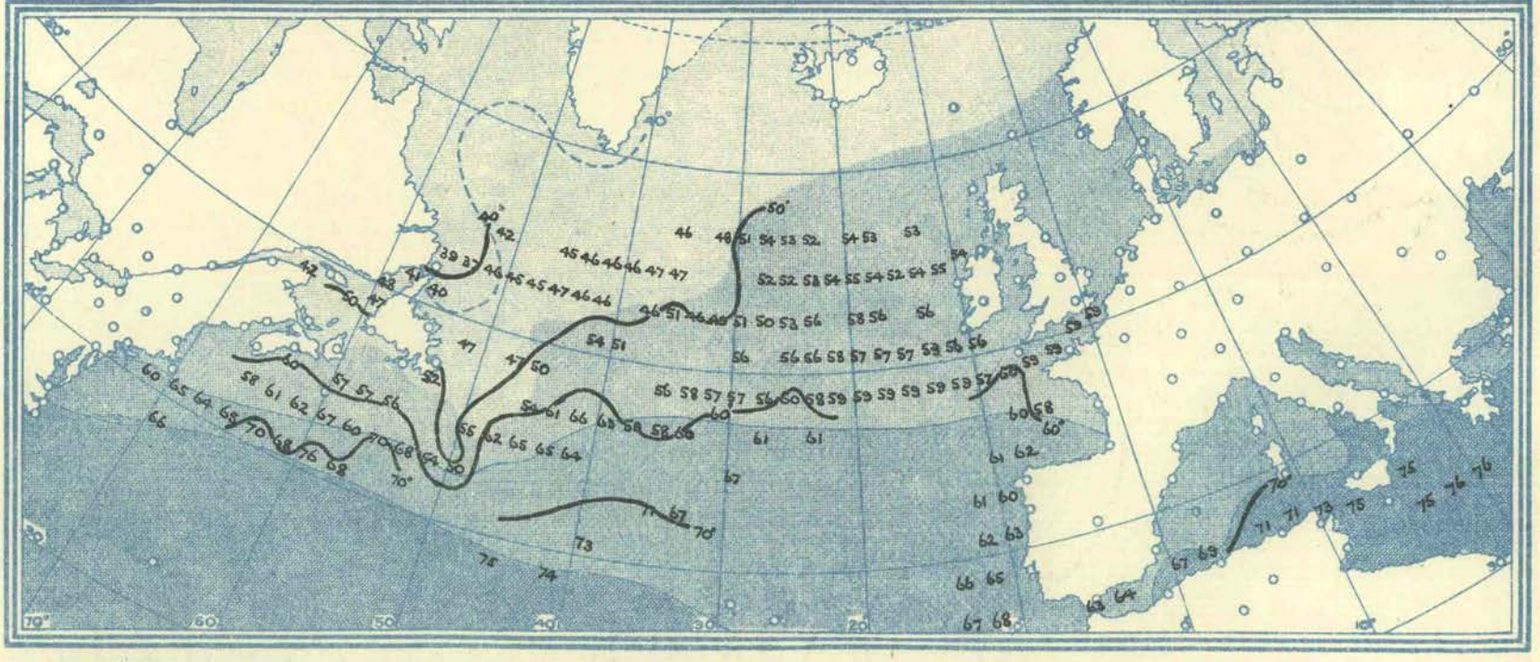


Oct. 10th.—A deep depression on the Atlantic centred in about lat. 53° N. long. 22° W. remained almost stationary during day, but the gradient increased over these Islands and the wind rose to a gale from the South-Eastward on some parts of our western and southern coasts. Rain was experienced in Ireland and the greater part of England, about 0·8in. in the south-west and south of Ireland, and 0·85in. at Newquay. Rain also fell in Brittany, some parts of central Europe, and Russia. Temperature remained below 60° in nearly all English districts except the most southern, and rose little above it in most parts of France. In many German localities the maxima were below 60°. In the far south and south-east of Europe the thermometer rose to between 70° and 80°; at Brindisi it touched 81°, at Athens 84°, and at Malta 86°. Frost occurred at night in Sweden and northern Russia.



Oct. 11th.—A secondary depression travelled eastward across the south of England during day, causing considerable falls of rain; 0·58in. in London, 0·48in. at Dungeness. Rain was also general in the west and north; 0·5in. at Pembroke, 0·6in. at Valencia, and 0·9in. at Blacksod Point. Slight to moderate rains fell in the north of France and in the Netherlands, as well as at Riga. Temperature remained below 55° in several parts of England and Scotland, Germany, and Austria, but rose to above 60° in Ireland, the south-west of England, and the north of France, and to above 70° in southern Europe; to 77° at Palma and Palermo, 79° at Cagliari, 81° at Patras, and 86° at Athens. Frost was rather general over northern Europe during night, and occurred at some stations in central Europe.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 11TH. OCTOBER, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain and in the Azores. These times refer to Greenwich Mean Time.

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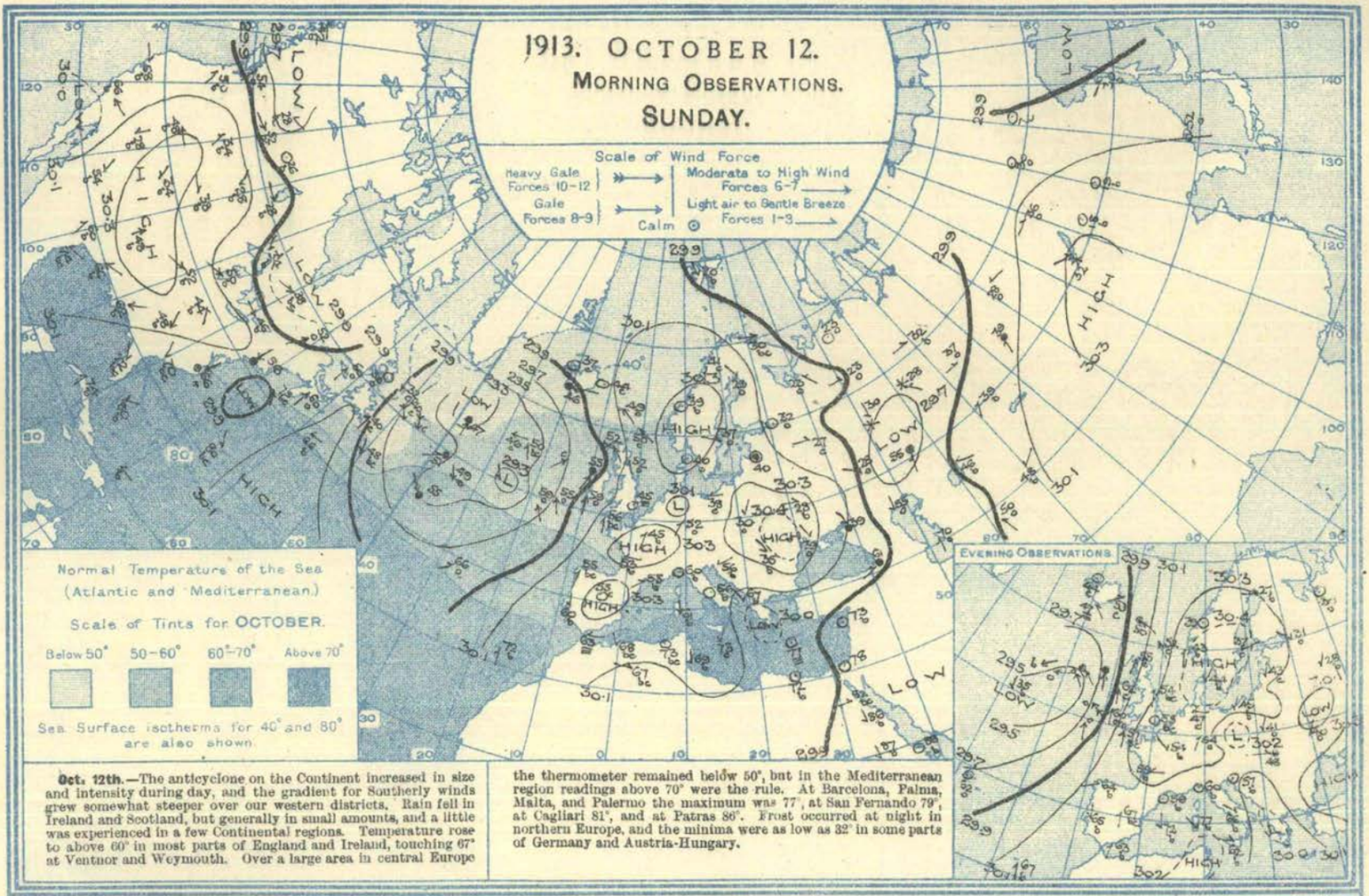
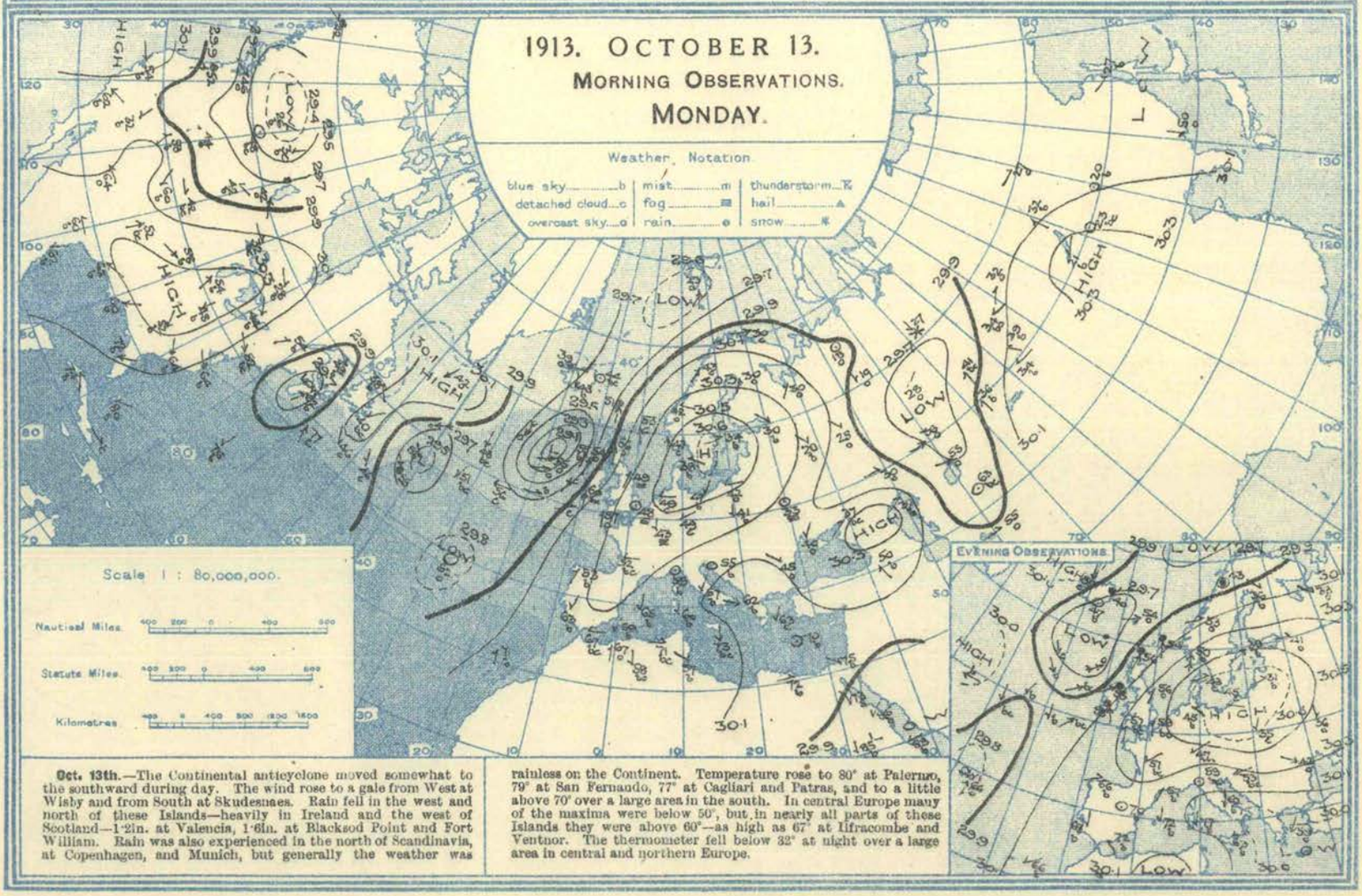
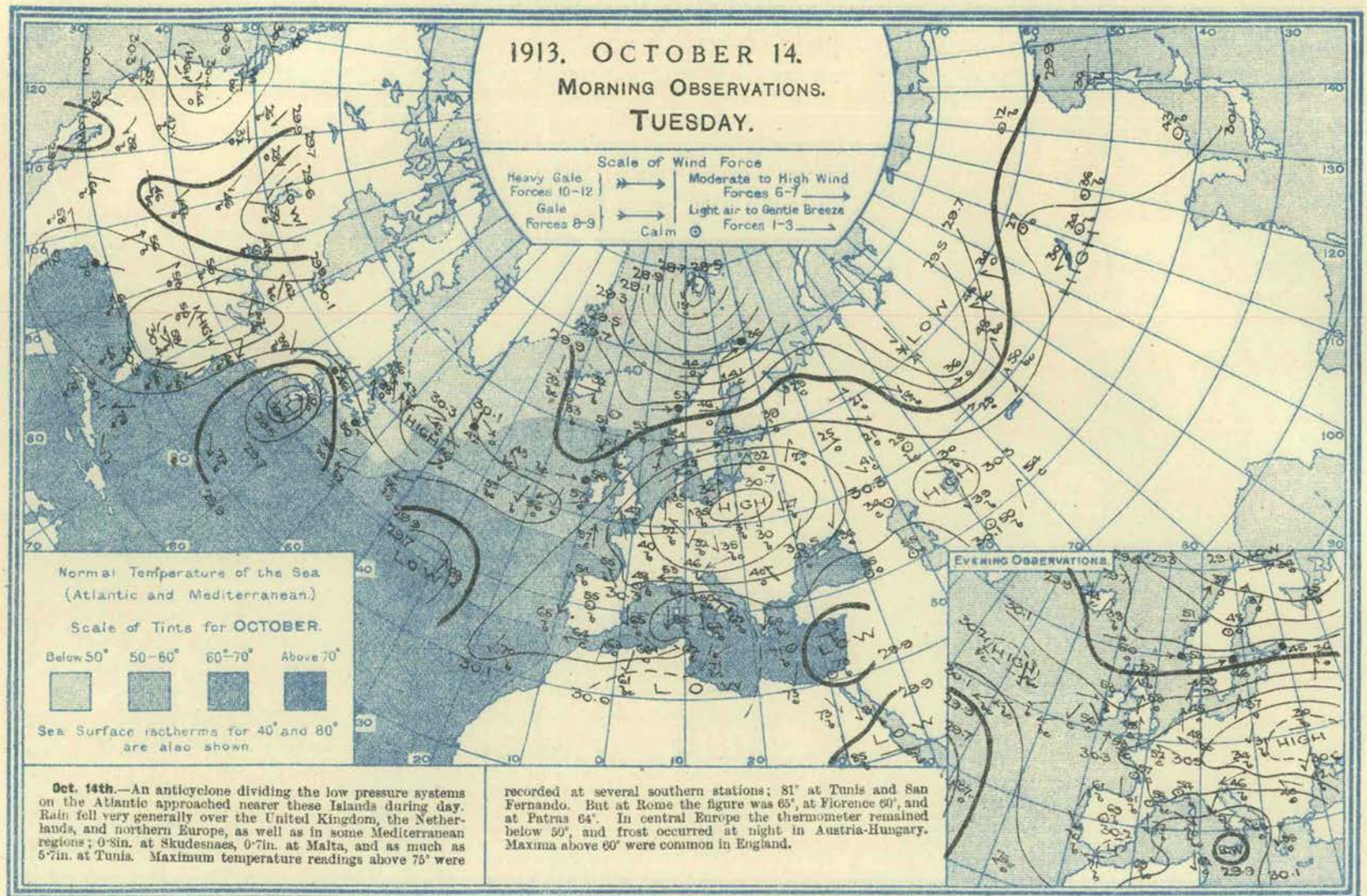
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40° and 80° are shown by blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



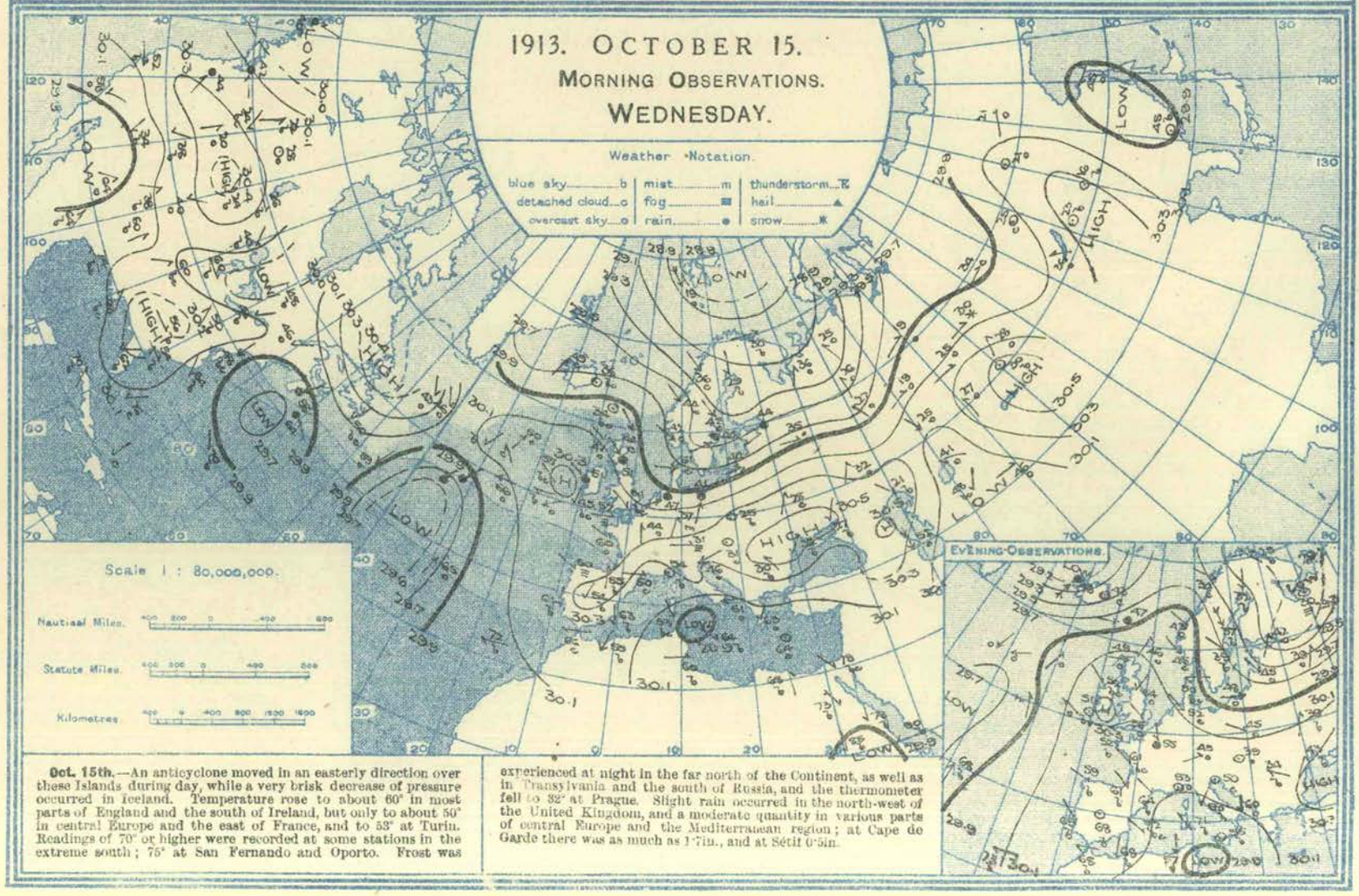
Oct. 12th.—The anticyclone on the Continent increased in size and intensity during day, and the gradient for Southerly winds grew somewhat steeper over our western districts. Rain fell in Ireland and Scotland, but generally in small amounts, and a little was experienced in a few Continental regions. Temperature rose to above 60° in most parts of England and Ireland, touching 67° at Ventnor and Weymouth. Over a large area in central Europe the thermometer remained below 50°, but in the Mediterranean region readings above 70° were the rule. At Barcelona, Palma, Malta, and Palermo the maximum was 77°, at San Fernando 79°, at Cagliari 81°, and at Patras 86°. Frost occurred at night in northern Europe, and the minima were as low as 32° in some parts of Germany and Austria-Hungary.



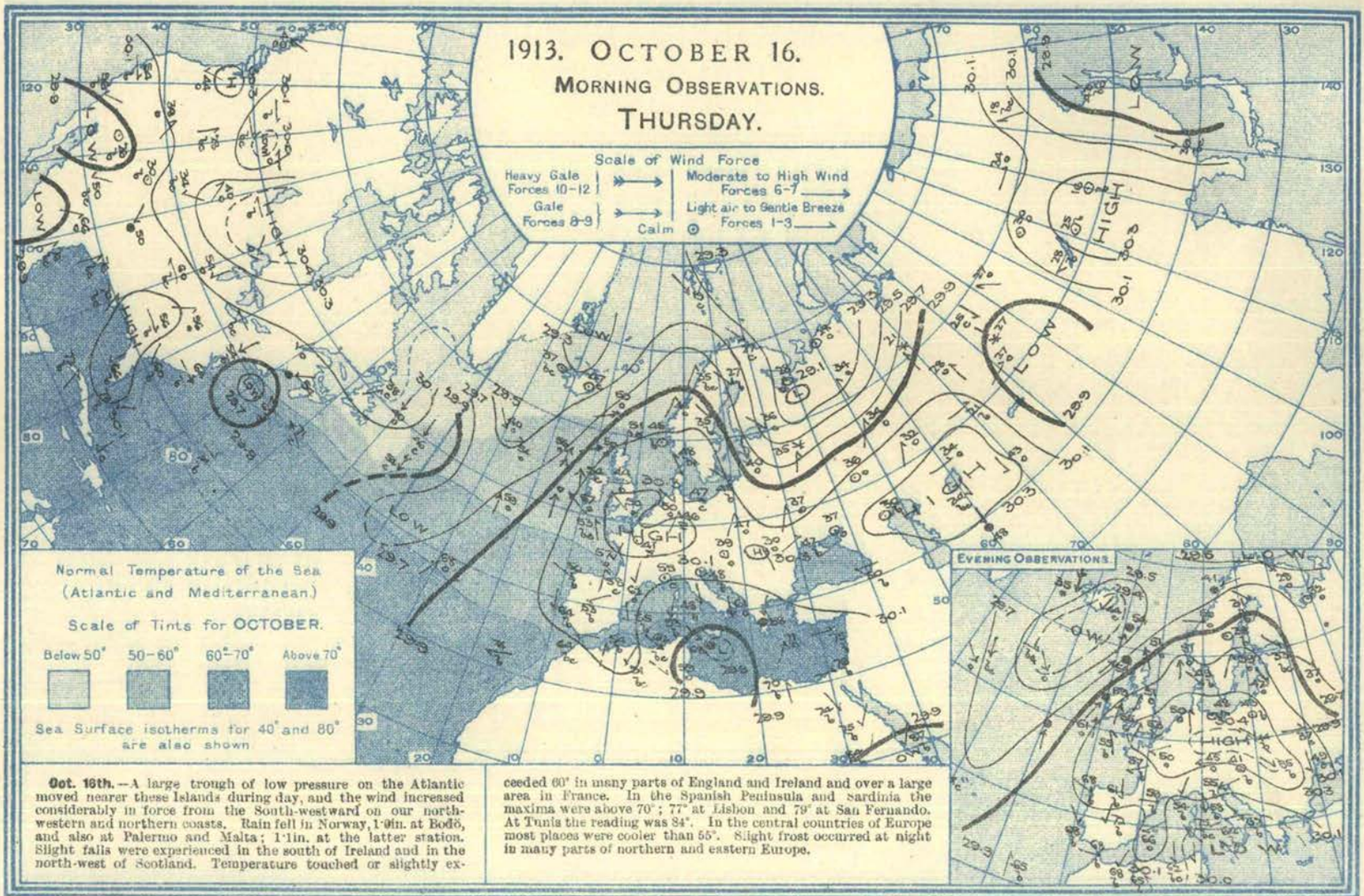
Oct. 13th.—The Continental anticyclone moved somewhat to the southward during day. The wind rose to a gale from West at Wisby and from South at Skudesnaes. Rain fell in the west and north of these Islands—heavily in Ireland and the west of Scotland—1·2in. at Valencia, 1·6in. at Blacksod Point and Fort William. Rain was also experienced in the north of Scandinavia, at Copenhagen, and Munich, but generally the weather was rainless on the Continent. Temperature rose to 80° at Palermo, 79° at San Fernando, 77° at Cagliari and Patras, and to a little above 70° over a large area in the south. In central Europe many of the maxima were below 50°, but in nearly all parts of these Islands they were above 60°—as high as 67° at Ilfracombe and Ventnor. The thermometer fell below 32° at night over a large area in central and northern Europe.



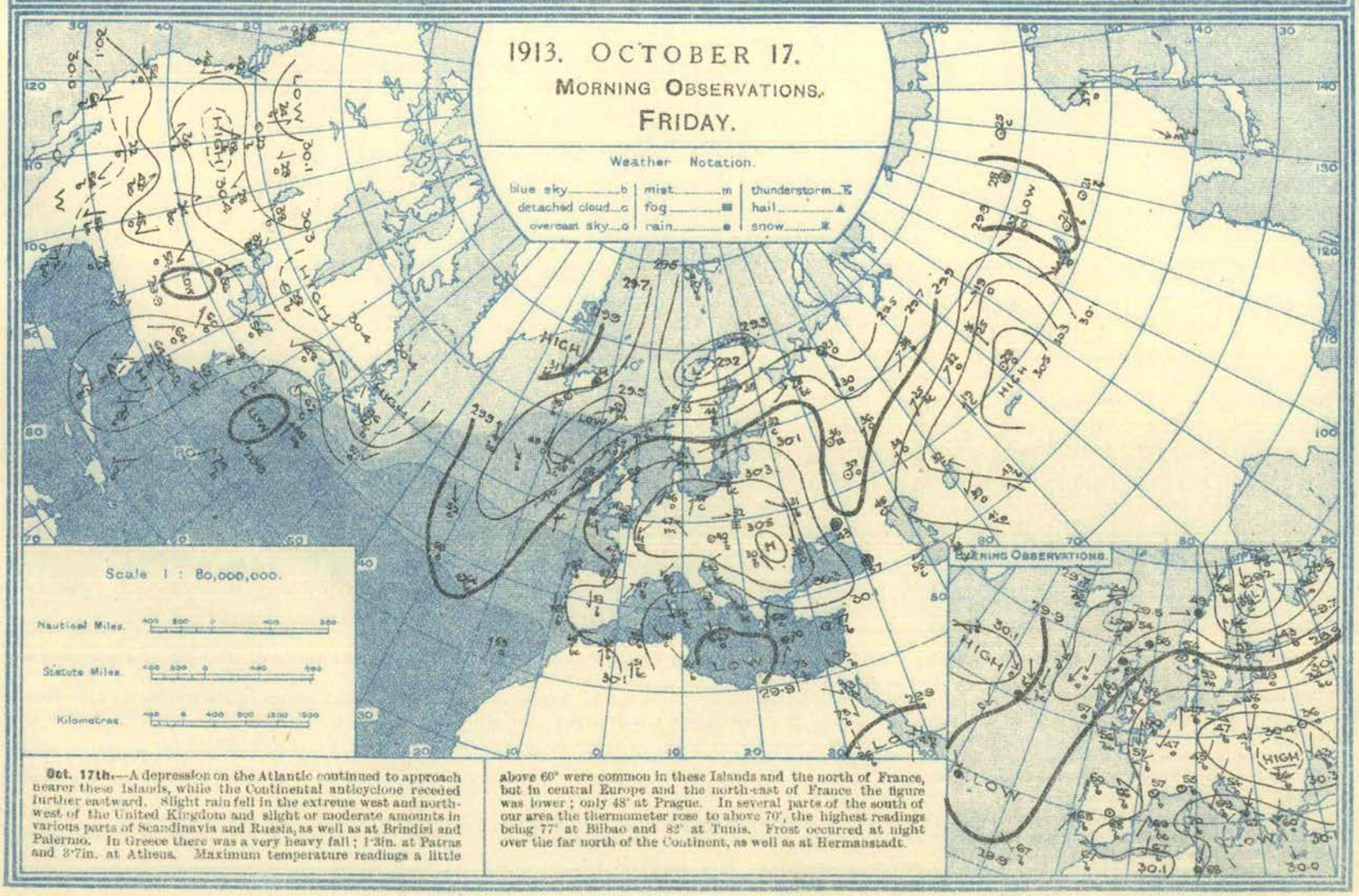
Oct. 14th.—An anticyclone dividing the low pressure systems on the Atlantic approached nearer these Islands during day. Rain fell very generally over the United Kingdom, the Netherlands, and northern Europe, as well as in some Mediterranean regions; 0·8in. at Skudesnaes, 0·7in. at Malta, and as much as 5·7in. at Tunis. Maximum temperature readings above 75° were recorded at several southern stations; 81° at Tunis and San Fernando. But at Rome the figure was 65°, at Florence 60°, and at Patras 64°. In central Europe the thermometer remained below 50°, and frost occurred at night in Austria-Hungary. Maxima above 60° were common in England.



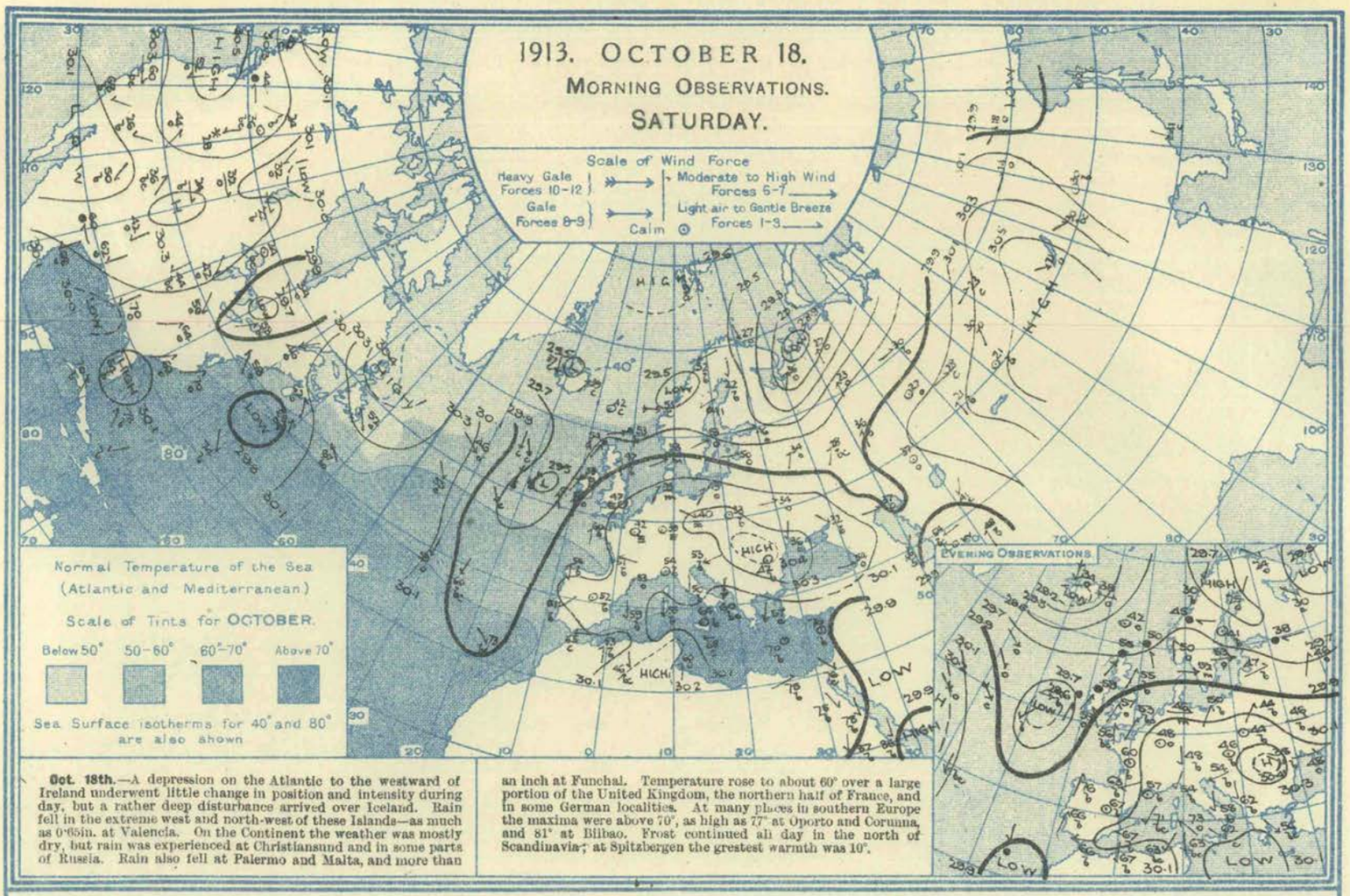
Oct. 15th.—An anticyclone moved in an easterly direction over these Islands during day, while a very brisk decrease of pressure occurred in Iceland. Temperature rose to about 60° in most parts of England and the south of Ireland, but only to about 50° in central Europe and the east of France, and to 53° at Turin. Readings of 70° or higher were recorded at some stations in the extreme south; 75° at San Fernando and Oporto. Frost was experienced at night in the far north of the Continent, as well as in Transylvania and the south of Russia, and the thermometer fell to 32° at Prague. Slight rain occurred in the north-west of the United Kingdom, and a moderate quantity in various parts of central Europe and the Mediterranean region; at Cape de Garde there was as much as 1·7in., and at Sétif 0·5in.



Oct. 16th.—A large trough of low pressure on the Atlantic moved nearer these Islands during day, and the wind increased considerably in force from the South-westward on our north-western and northern coasts. Rain fell in Norway, 1·0in. at Bodö, and also at Palermo and Malta; 1·1in. at the latter station. Slight falls were experienced in the south of Ireland and in the north-west of Scotland. Temperature touched or slightly exceeded 60° in many parts of England and Ireland and over a large area in France. In the Spanish Peninsula and Sardinia the maxima were above 70°; 77° at Lisbon and 79° at San Fernando. At Tunis the reading was 84°. In the central countries of Europe most places were cooler than 55°. Slight frost occurred at night in many parts of northern and eastern Europe.

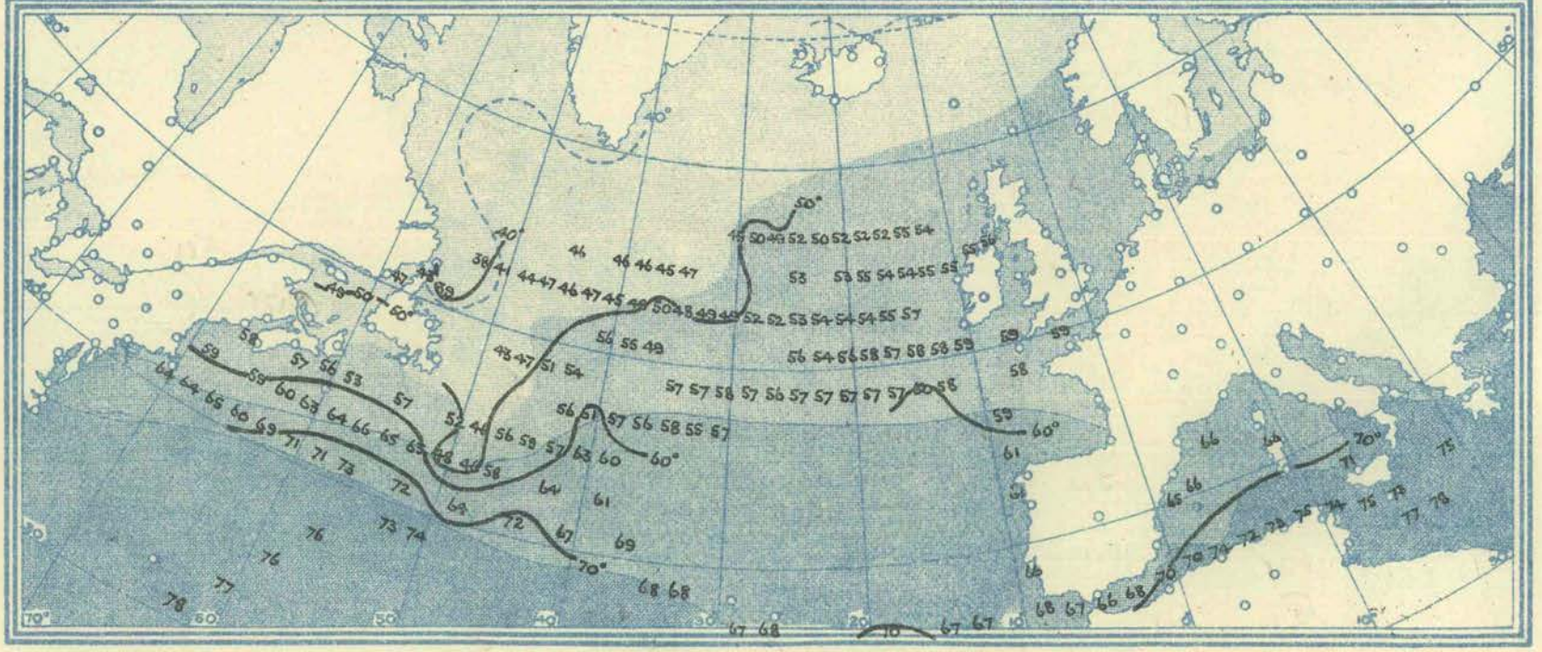


Oct. 17th.—A depression on the Atlantic continued to approach nearer these Islands, while the Continental anticyclone receded further eastward. Slight rain fell in the extreme west and north-west of the United Kingdom and slight or moderate amounts in various parts of Scandinavia and Russia, as well as at Brindisi and Palermo. In Greece there was a very heavy fall; 1·3in. at Patras and 3·7in. at Athens. Maximum temperature readings a little above 60° were common in these Islands and the north of France, but in central Europe and the north-east of France the figure was lower; only 48° at Prague. In several parts of the south of our area the thermometer rose to above 70°, the highest readings being 77° at Bilbao and 82° at Tunis. Frost occurred at night over the far north of the Continent, as well as at Hermanstadt.



Oct. 18th.—A depression on the Atlantic to the westward of Ireland underwent little change in position and intensity during day, but a rather deep disturbance arrived over Iceland. Rain fell in the extreme west and north-west of these Islands—as much as 0·65in. at Valencia. On the Continent the weather was mostly dry, but rain was experienced at Christiansund and in some parts of Russia. Rain also fell at Palermo and Malta, and more than an inch at Funchal. Temperature rose to about 60° over a large portion of the United Kingdom, the northern half of France, and in some German localities. At many places in southern Europe the maxima were above 70°, as high as 77° at Oporto and Corunna, and 81° at Bilbao. Frost continued all day in the north of Scandinavia; at Spitzbergen the greatest warmth was 10°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 18TH OCTOBER, 1913.



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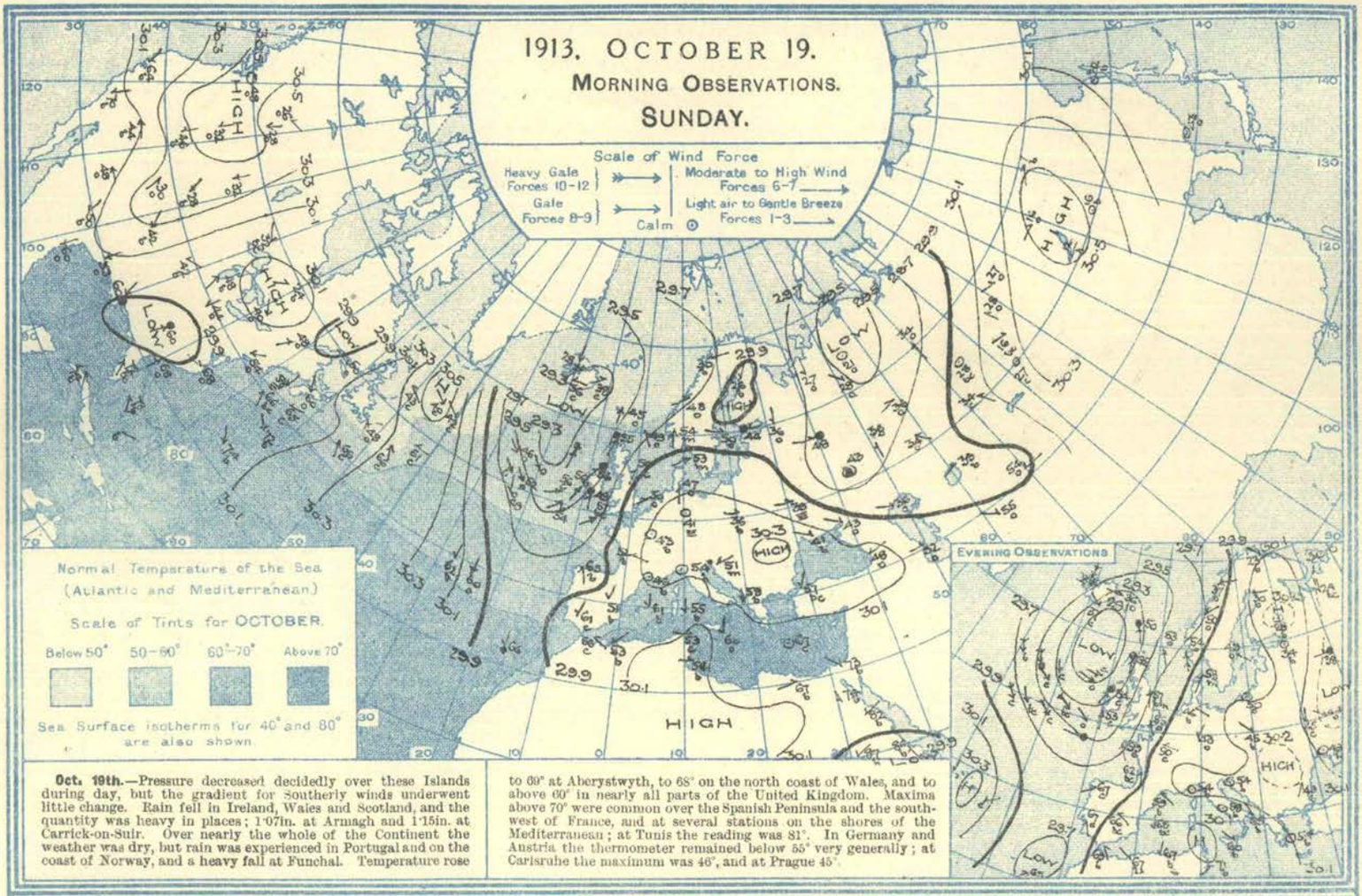
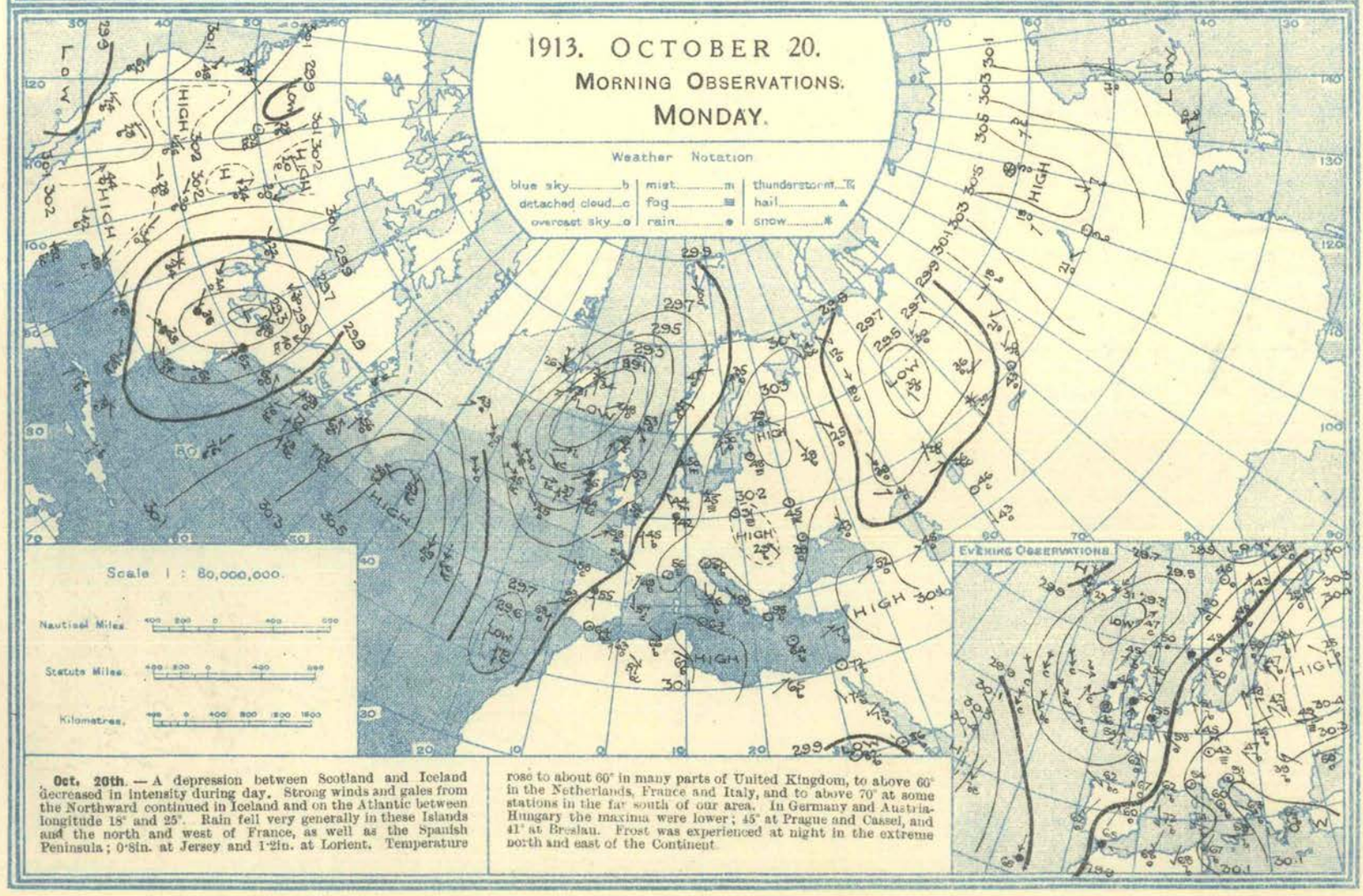
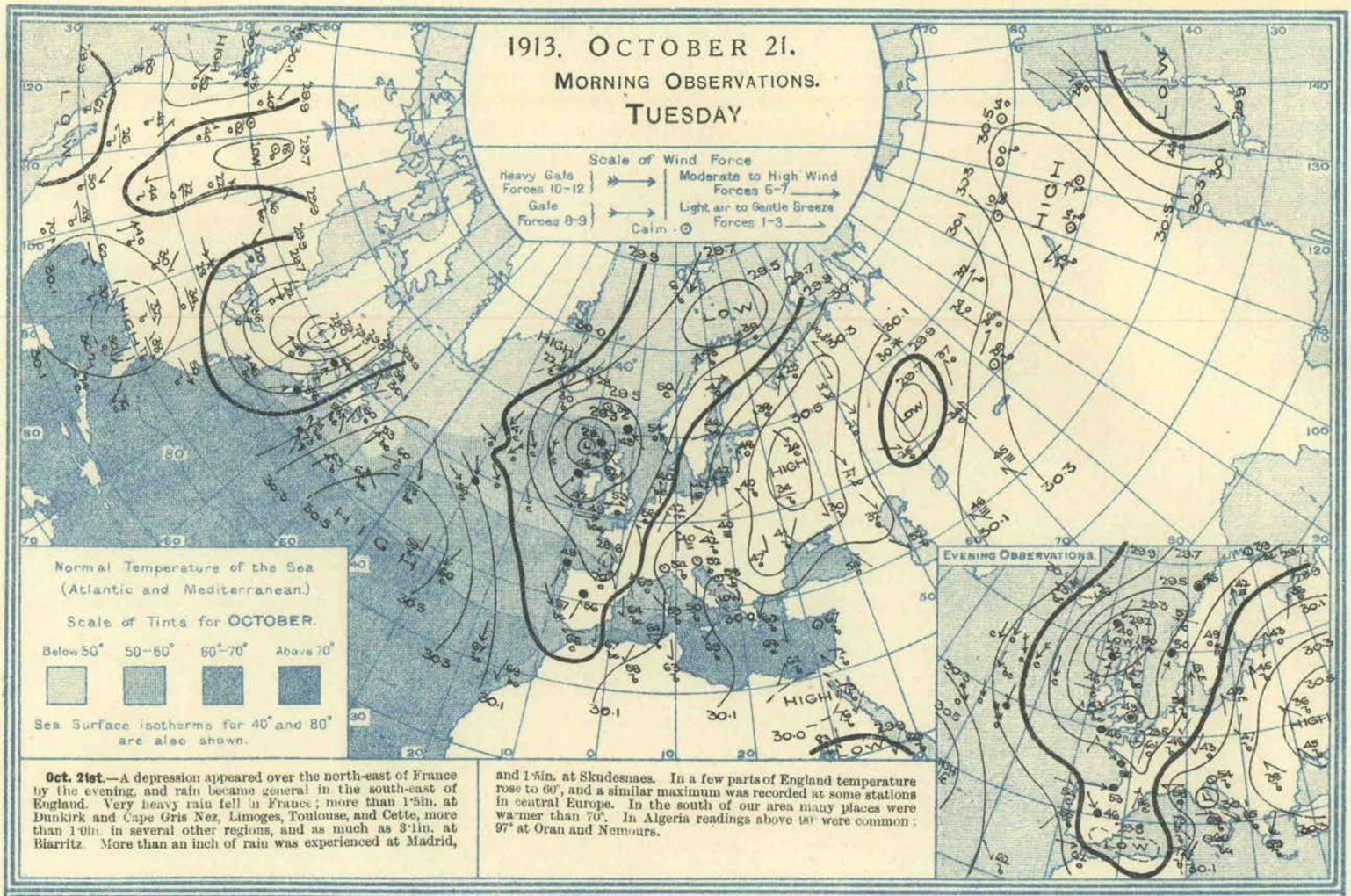


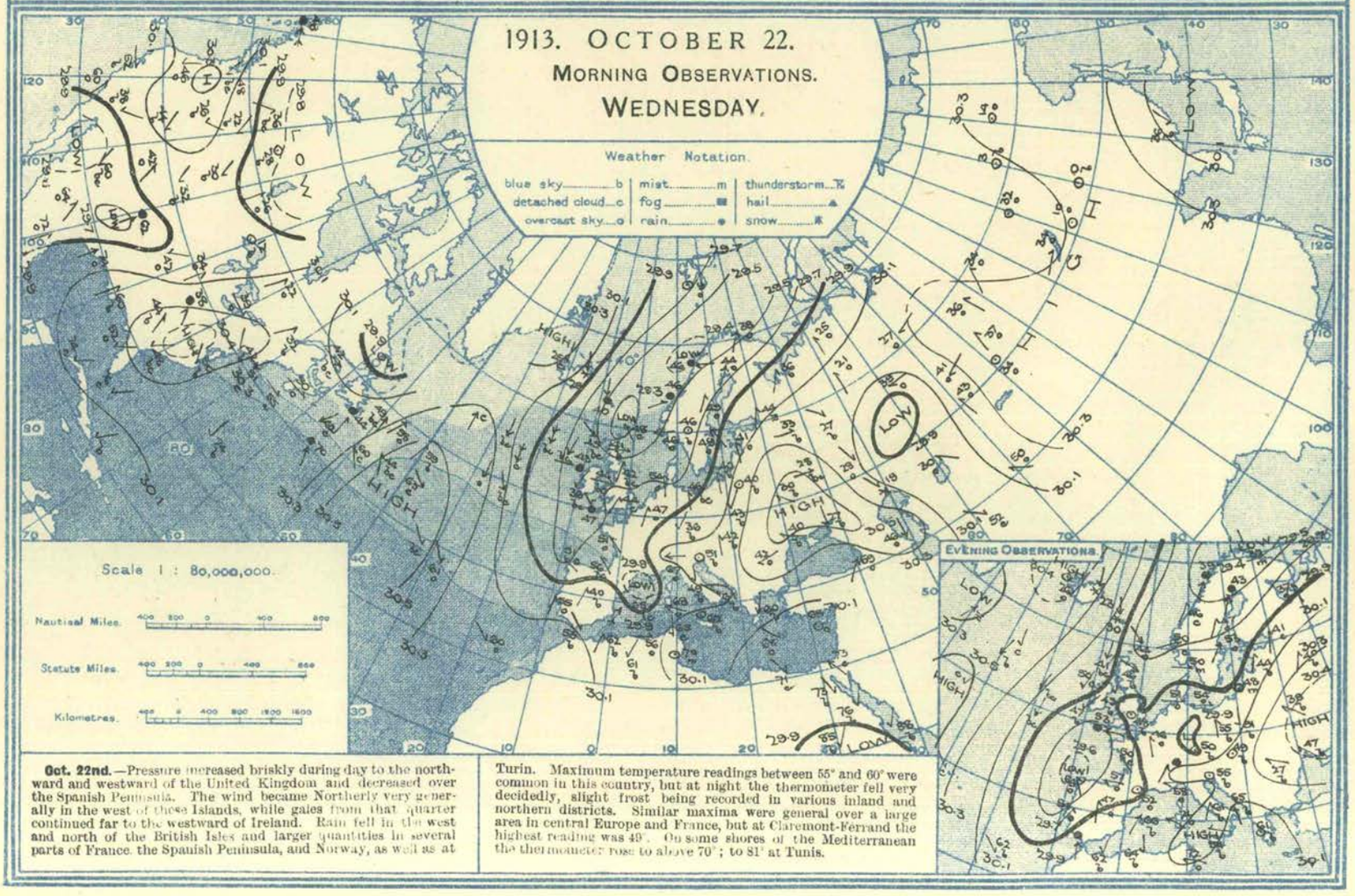
Oct. 19th.—Pressure decreased decidedly over these Islands during day, but the gradient for Southerly winds underwent little change. Rain fell in Ireland, Wales and Scotland, and the quantity was heavy in places; 1·07in. at Armagh and 1·15in. at Carrick-on-Suir. Over nearly the whole of the Continent the weather was dry, but rain was experienced in Portugal and on the coast of Norway, and a heavy fall at Funchal. Temperature rose to 69° at Aberystwyth, to 68° on the north coast of Wales, and to above 60° in nearly all parts of the United Kingdom. Maxima above 70° were common over the Spanish Peninsula and the south-west of France, and at several stations on the shores of the Mediterranean; at Tunis the reading was 81°. In Germany and Austria the thermometer remained below 55° very generally; at Carlsruhe the maximum was 46°, and at Prague 45°.



Oct. 20th.—A depression between Scotland and Iceland decreased in intensity during day. Strong winds and gales from the Northward continued in Iceland and on the Atlantic between longitude 18° and 25°. Rain fell very generally in these Islands and the north and west of France, as well as the Spanish Peninsula; 0·8in. at Jersey and 1·2in. at Lorient. Temperature rose to about 66° in many parts of United Kingdom, to above 60° in the Netherlands, France and Italy, and to above 70° at some stations in the far south of our area. In Germany and Austria-Hungary the maxima were lower; 45° at Prague and Cassel, and 41° at Breslau. Frost was experienced at night in the extreme north and east of the Continent.



Oct. 21st.—A depression appeared over the north-east of France by the evening, and rain became general in the south-east of England. Very heavy rain fell in France; more than 1·5in. at Dunkirk and Cape Gris Nez, Limoges, Toulouse, and Cette, more than 1·0in. in several other regions, and as much as 3·1in. at Biarritz. More than an inch of rain was experienced at Madrid, and 1·5in. at Skudesnaes. In a few parts of England temperature rose to 60°, and a similar maximum was recorded at some stations in central Europe. In the south of our area many places were warmer than 70°. In Algeria readings above 90° were common; 97° at Oran and Nemours.



Oct. 22nd.—Pressure increased briskly during day to the northward and westward of the United Kingdom and decreased over the Spanish Peninsula. The wind became Northerly very generally in the west of these Islands, while gales from that quarter continued far to the westward of Ireland. Rain fell in the west and north of the British Isles and larger quantities in several parts of France, the Spanish Peninsula, and Norway, as well as at Turin. Maximum temperature readings between 55° and 60° were common in this country, but at night the thermometer fell very decidedly, slight frost being recorded in various inland and northern districts. Similar maxima were general over a large area in central Europe and France, but at Claremont-Ferrand the highest reading was 49°. On some shores of the Mediterranean the thermometer rose to above 70°; to 81° at Tunis.

1913. OCTOBER 23.

MORNING OBSERVATIONS.

THURSDAY.

Scale of Wind Force

Heavy Gale Forces 10–12 | Gale Forces 8–9 | Moderate to High Wind Forces 6–7 | Light air to Gentle Breeze Forces 1–3 | Calm

Normal Temperature of the Sea (Atlantic and Mediterranean)

Scale of Tints for OCTOBER.

Below 50° | 50–60° | 60°–70° | Above 70°

Sea Surface isotherms for 40° and 80° are also shown

EVENING OBSERVATIONS.

Oct. 23rd.—The Atlantic anticyclone extended further over the United Kingdom during day, but a deep depression appeared over Iceland. A little rain occurred in the far north-west of these Islands, in the Netherlands, North Germany, and Norway, and as much as 1·9in. at San Fernando. Temperature remained below 50° at many of our northern and western stations, and below 55° in most parts of these Islands. Sharp frost occurred at night in central Ireland, a minimum temperature of 24° being registered at Birr Castle, and slight frost in several British localities. In the Mediterranean region many stations had maxima above 70°; at Cape de Garde the reading was 86°, and at Algiers 88°. In Germany and Austria most places recorded a maximum below 55°; at Prague the reading was only 48°.

1913. OCTOBER 24.

MORNING OBSERVATIONS.

FRIDAY.

Weather Notation.

blue sky ... b	mist ... m	thunderstorm ... ℞
detached cloud ... c	fog ... ≡	hail ... ▲
overcast sky ... o	rain ... •	snow ... ✱

Scale 1 : 80,000,000.

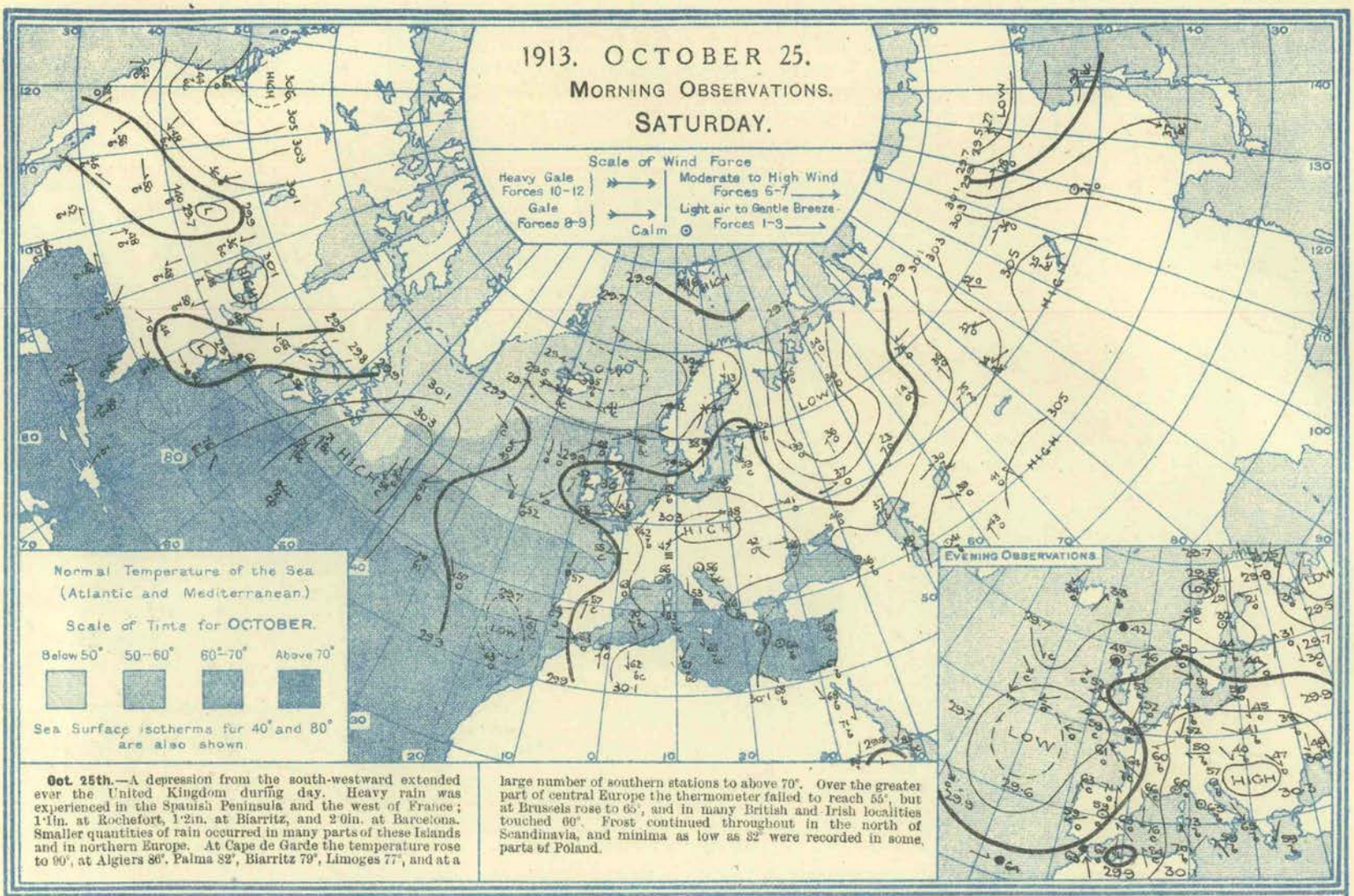
Nautical Miles. 400 200 0 400 600

Statute Miles. 400 200 0 400 600

Kilometres. 400 0 400 800 1200 1600

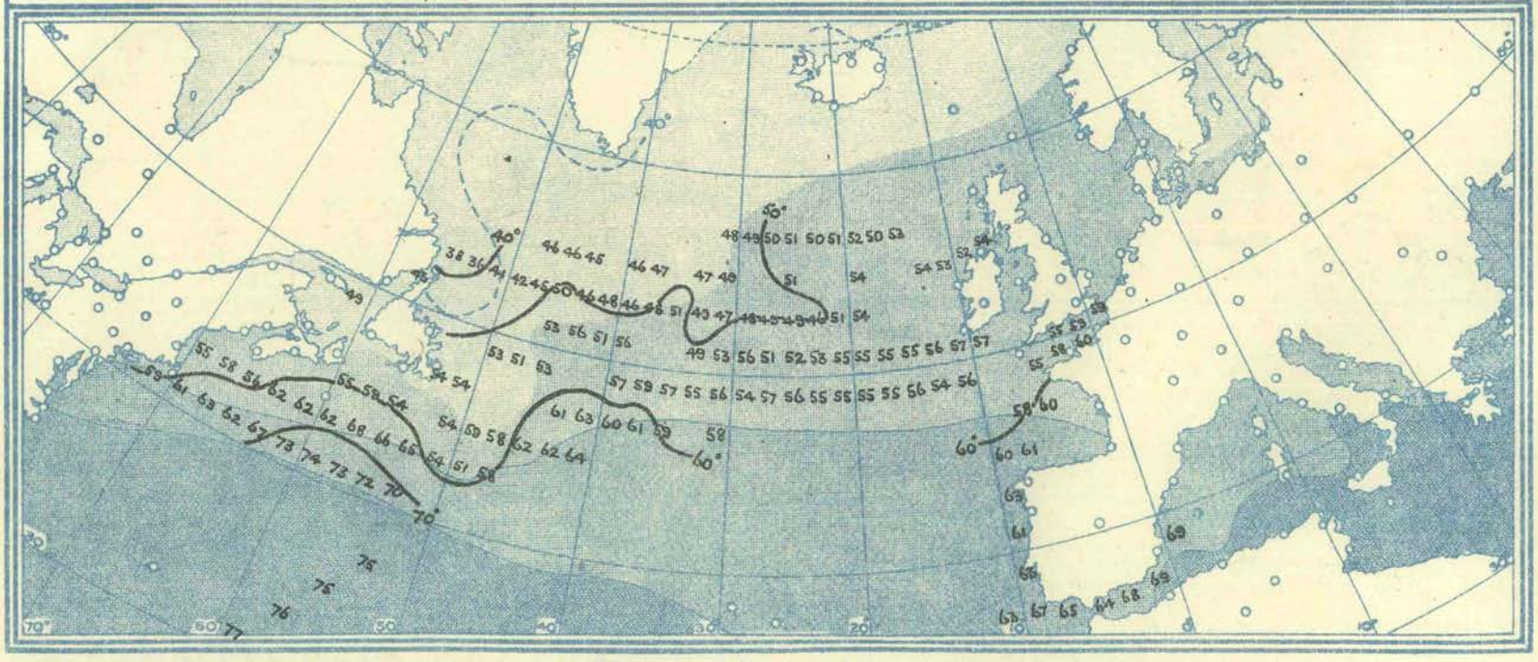
EVENING OBSERVATIONS.

Oct. 24th.—The high pressure system over these Islands and the Continent continued to move eastward during day. Heavy rain fell at Funchal and Lisbon, and smaller quantities in Scandinavia and on the Baltic coast of Germany. Rain was experienced in Ireland and Scotland, as much as 1·6in. at Fort William. Temperature rose to above 50° in most parts of these Islands, and to above 55° at many southern stations. Similar maxima were recorded in the north of France, the Netherlands, and the central countries, but over the southern regions of Europe the thermometer rose to above 70°. At Palermo the reading was 76° and at Palma 81°. At Oran and Algiers the maximum was 91°. Sharp frost continued all day in the north of Sweden.



Oct. 25th.—A depression from the south-westward extended over the United Kingdom during day. Heavy rain was experienced in the Spanish Peninsula and the west of France; 1·1in. at Rochefort, 1·2in. at Biarritz, and 2·0in. at Barcelona. Smaller quantities of rain occurred in many parts of these Islands and in northern Europe. At Cape de Garde the temperature rose to 90°, at Algiers 86°, Palma 82°, Biarritz 79°, Limoges 77°, and at a large number of southern stations to above 70°. Over the greater part of central Europe the thermometer failed to reach 55°, but at Brussels rose to 65°, and in many British and Irish localities touched 60°. Frost continued throughout in the north of Scandinavia, and minima as low as 32° were recorded in some parts of Poland.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 25TH. OCTOBER, 1913.



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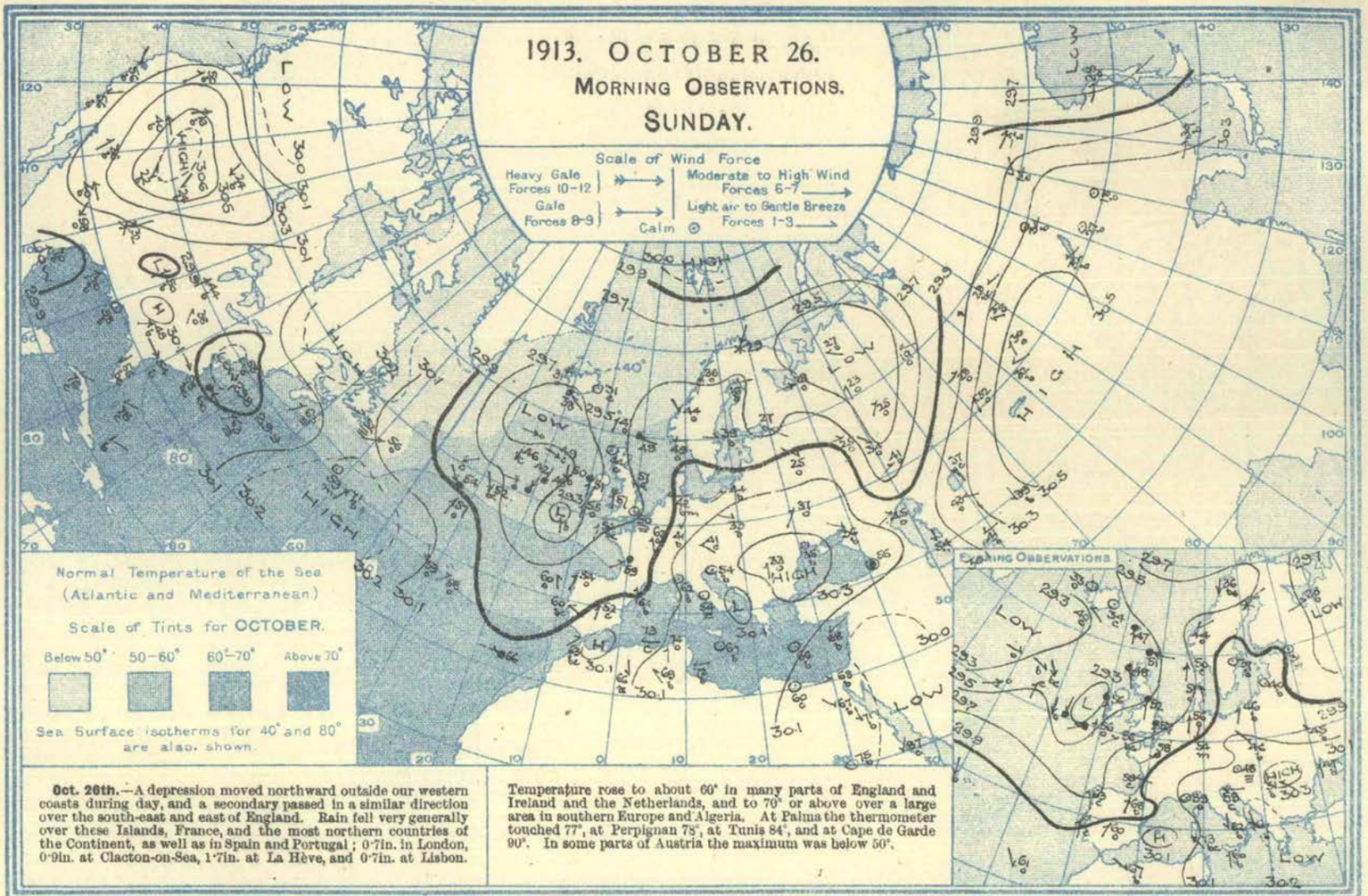
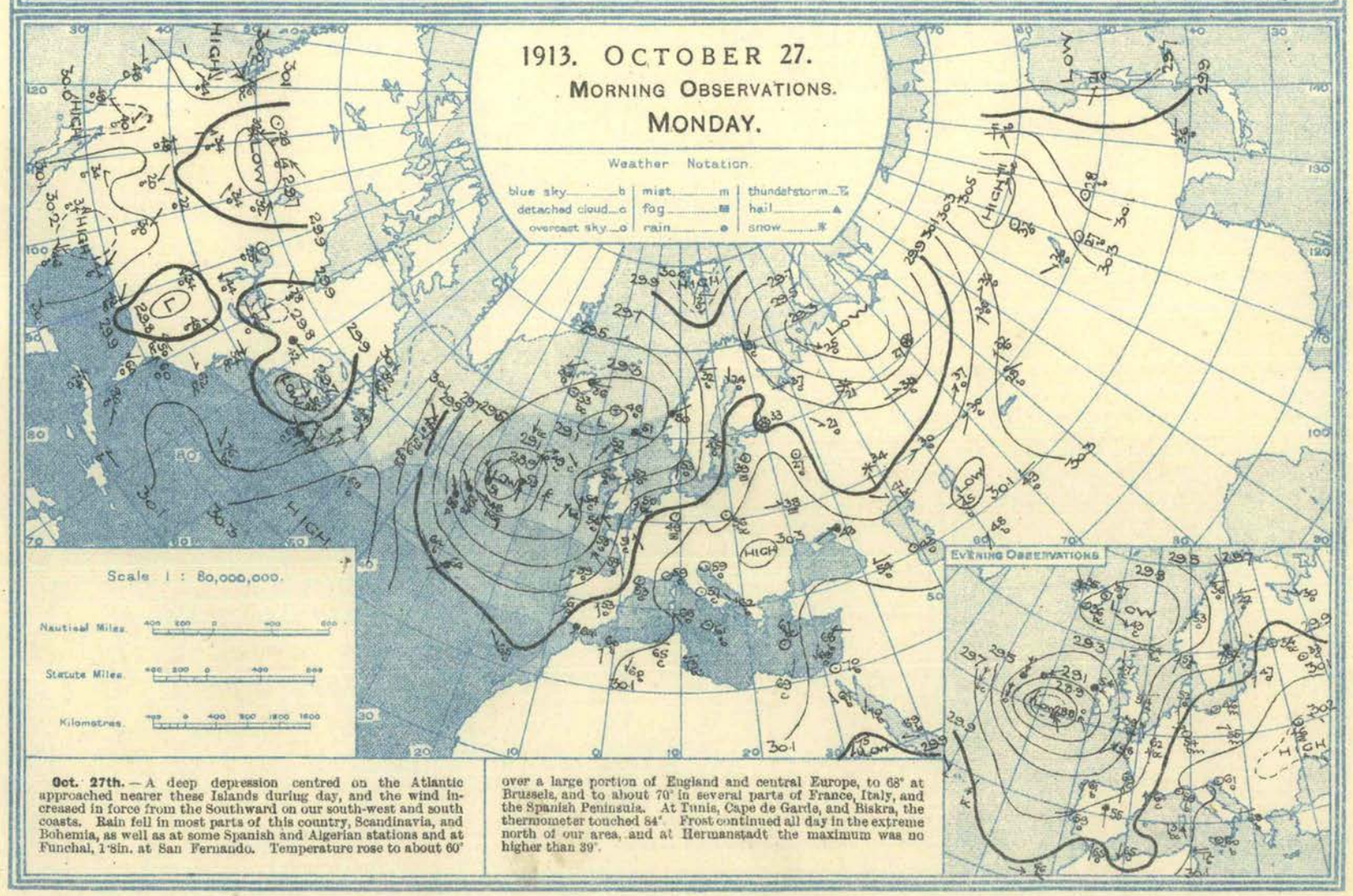
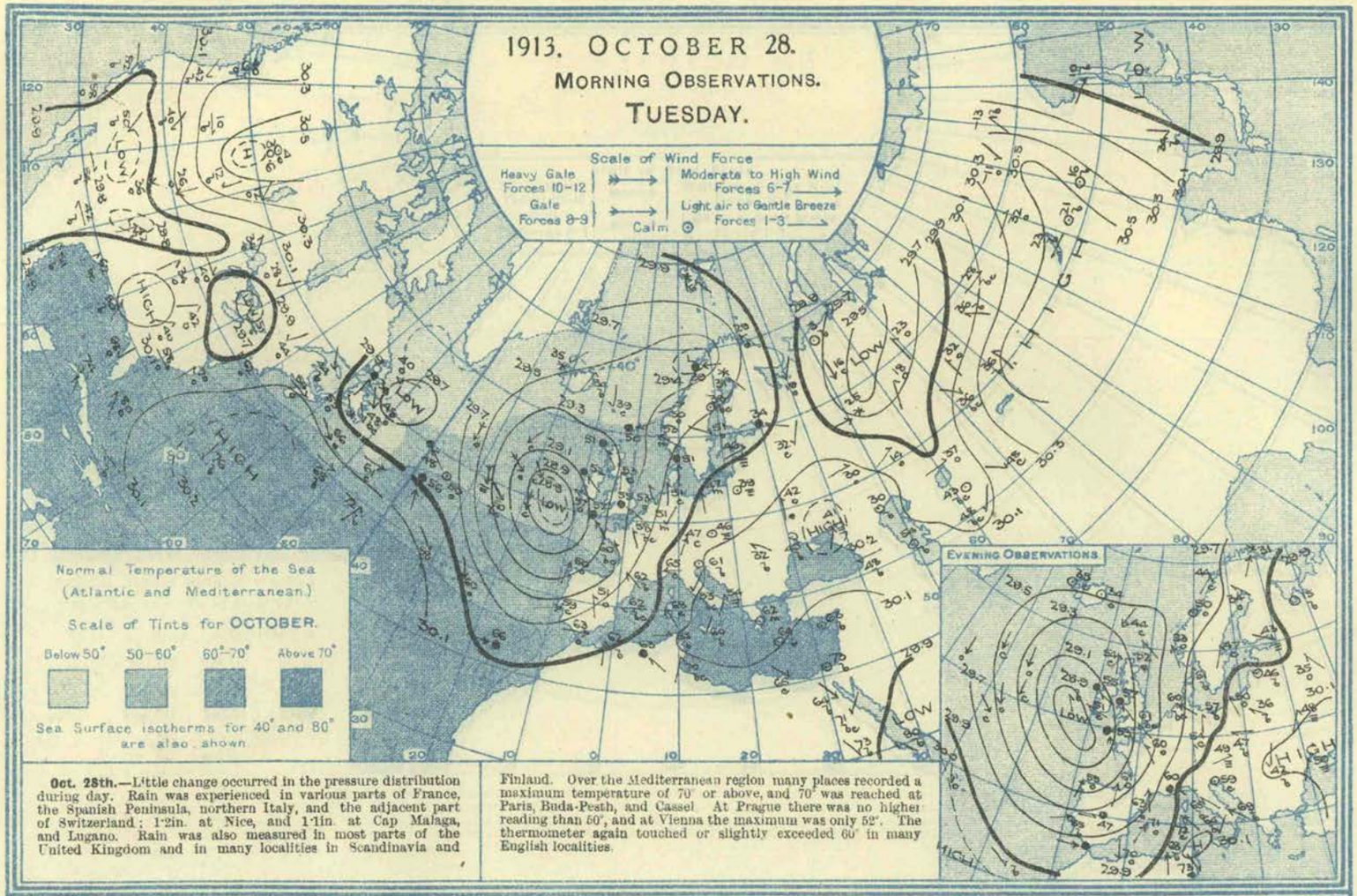


Oct. 26th.—A depression moved northward outside our western coasts during day, and a secondary passed in a similar direction over the south-east and east of England. Rain fell very generally over these Islands, France, and the most northern countries of the Continent, as well as in Spain and Portugal; 0·7in. in London, 0·9in. at Clacton-on-Sea, 1·7in. at La Hève, and 0·7in. at Lisbon.

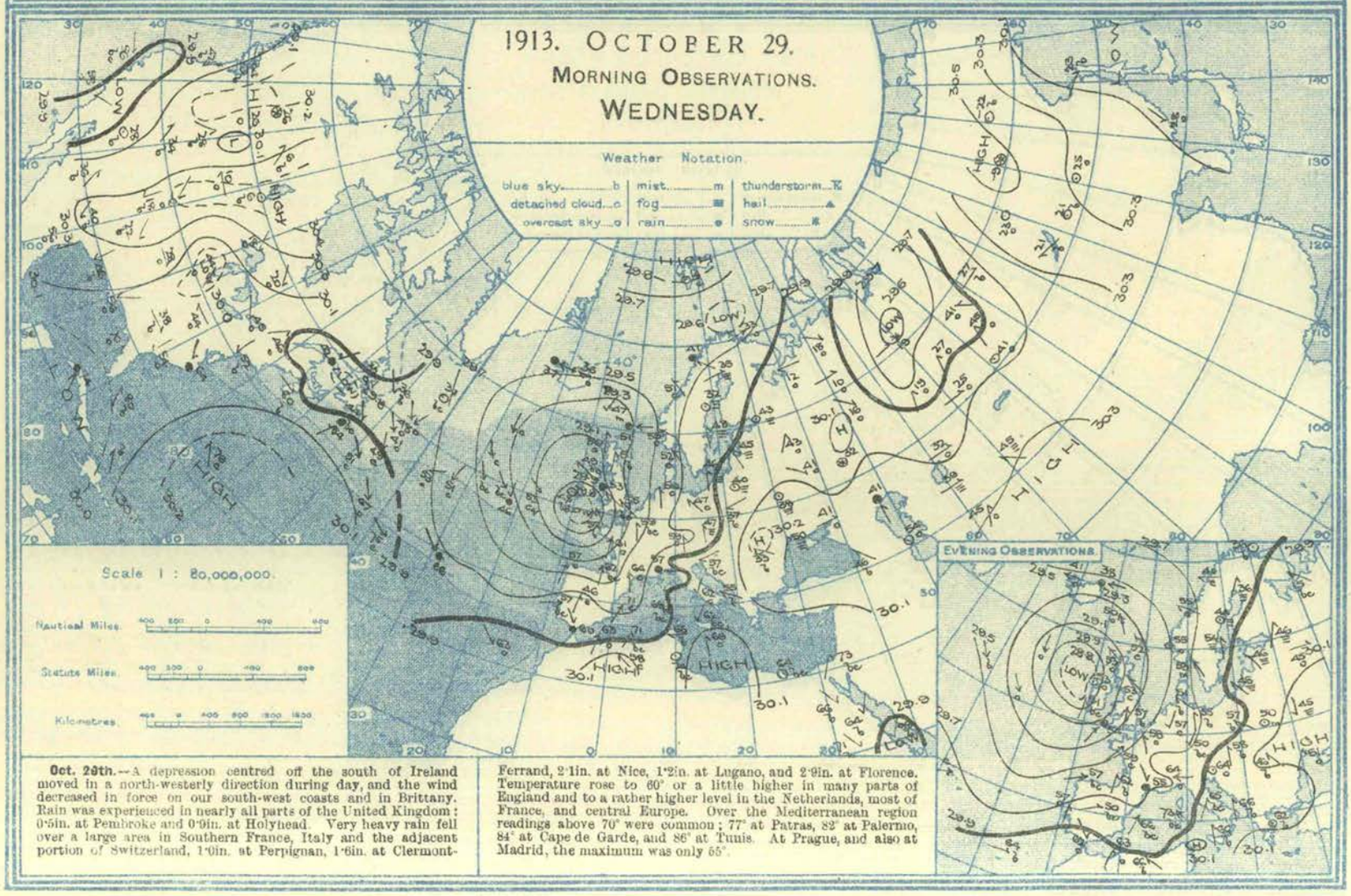
Temperature rose to about 60° in many parts of England and Ireland and the Netherlands, and to 70° or above over a large area in southern Europe and Algeria. At Palma the thermometer touched 77°, at Perpignan 78°, at Tunis 84°, and at Cape de Garde 90°. In some parts of Austria the maximum was below 50°.



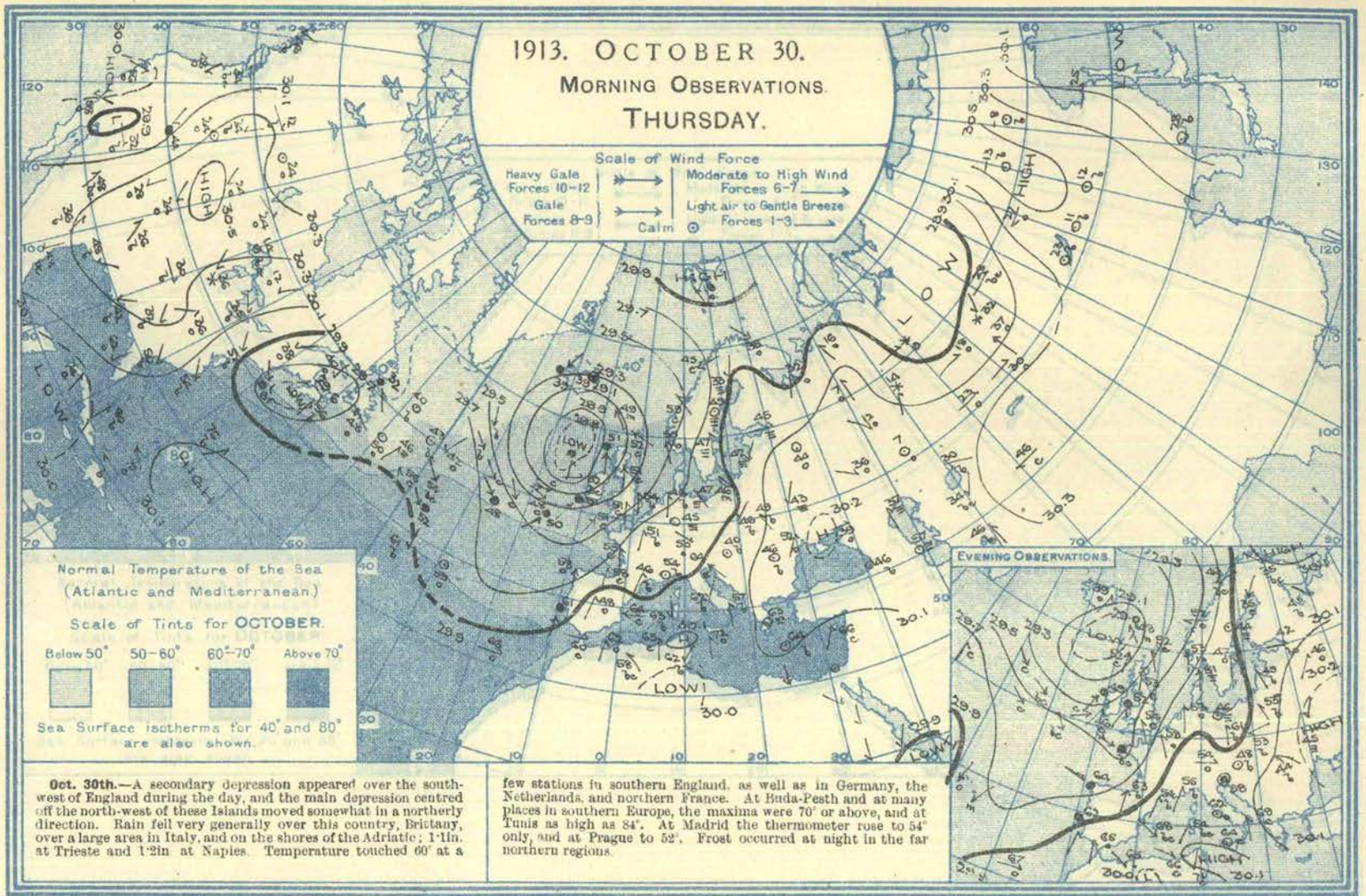
Oct. 27th.—A deep depression centred on the Atlantic approached nearer these Islands during day, and the wind increased in force from the Southward on our south-west and south coasts. Rain fell in most parts of this country, Scandinavia, and Bohemia, as well as at some Spanish and Algerian stations and at Funchal, 1·8in. at San Fernando. Temperature rose to about 60° over a large portion of England and central Europe, to 68° at Brussels, and to about 70° in several parts of France, Italy, and the Spanish Peninsula. At Tunis, Cape de Garde, and Biskra, the thermometer touched 84°. Frost continued all day in the extreme north of our area, and at Hermanstadt the maximum was no higher than 39°.



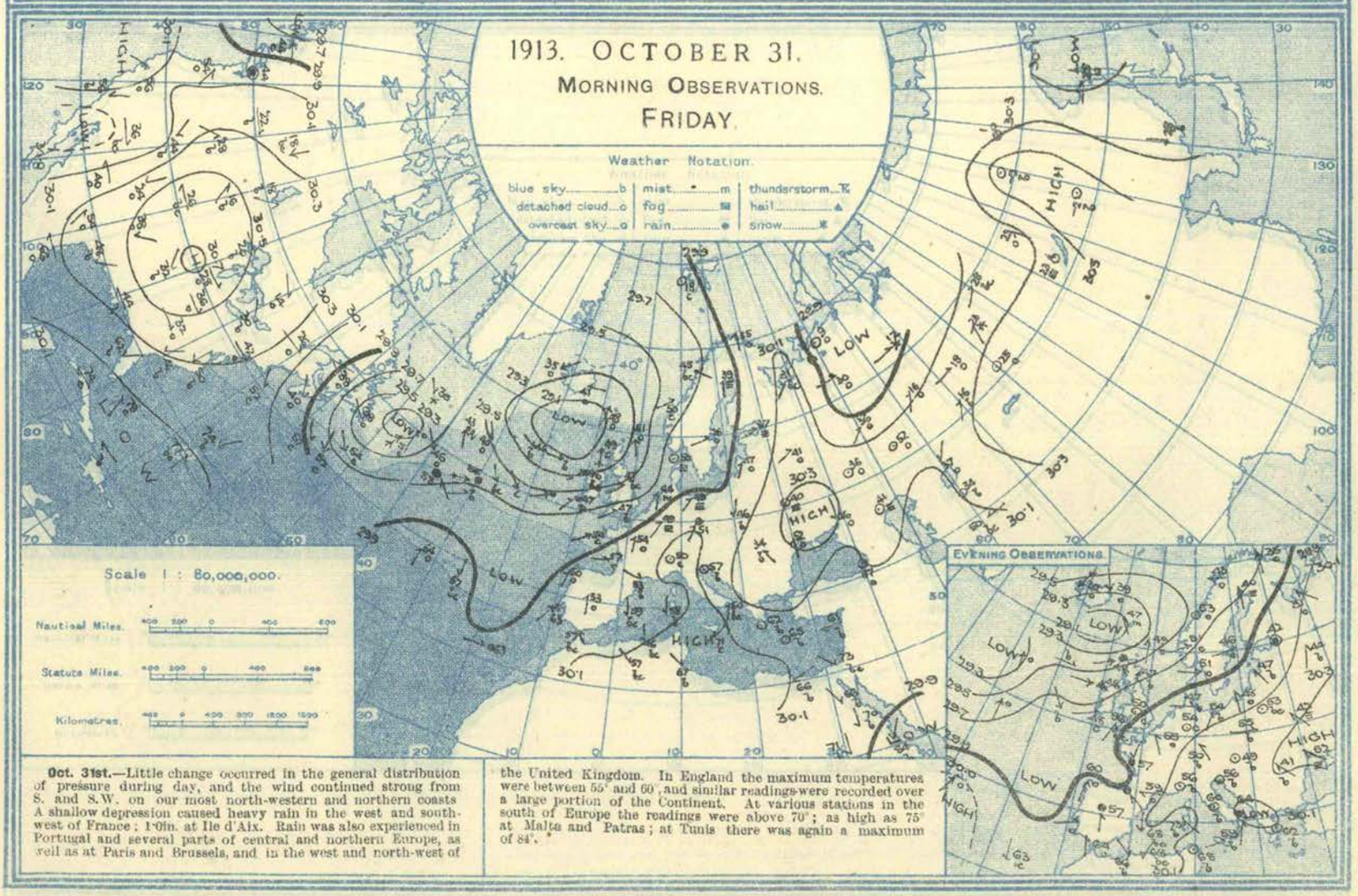
Oct. 28th.—Little change occurred in the pressure distribution during day. Rain was experienced in various parts of France, the Spanish Peninsula, northern Italy, and the adjacent part of Switzerland; 1·2in. at Nice, and 1·1in. at Cap Malaga, and Lugano. Rain was also measured in most parts of the United Kingdom and in many localities in Scandinavia and Finland. Over the Mediterranean region many places recorded a maximum temperature of 70° or above, and 70° was reached at Paris, Buda-Pesth, and Cassel. At Prague there was no higher reading than 50°, and at Vienna the maximum was only 52°. The thermometer again touched or slightly exceeded 60° in many English localities.



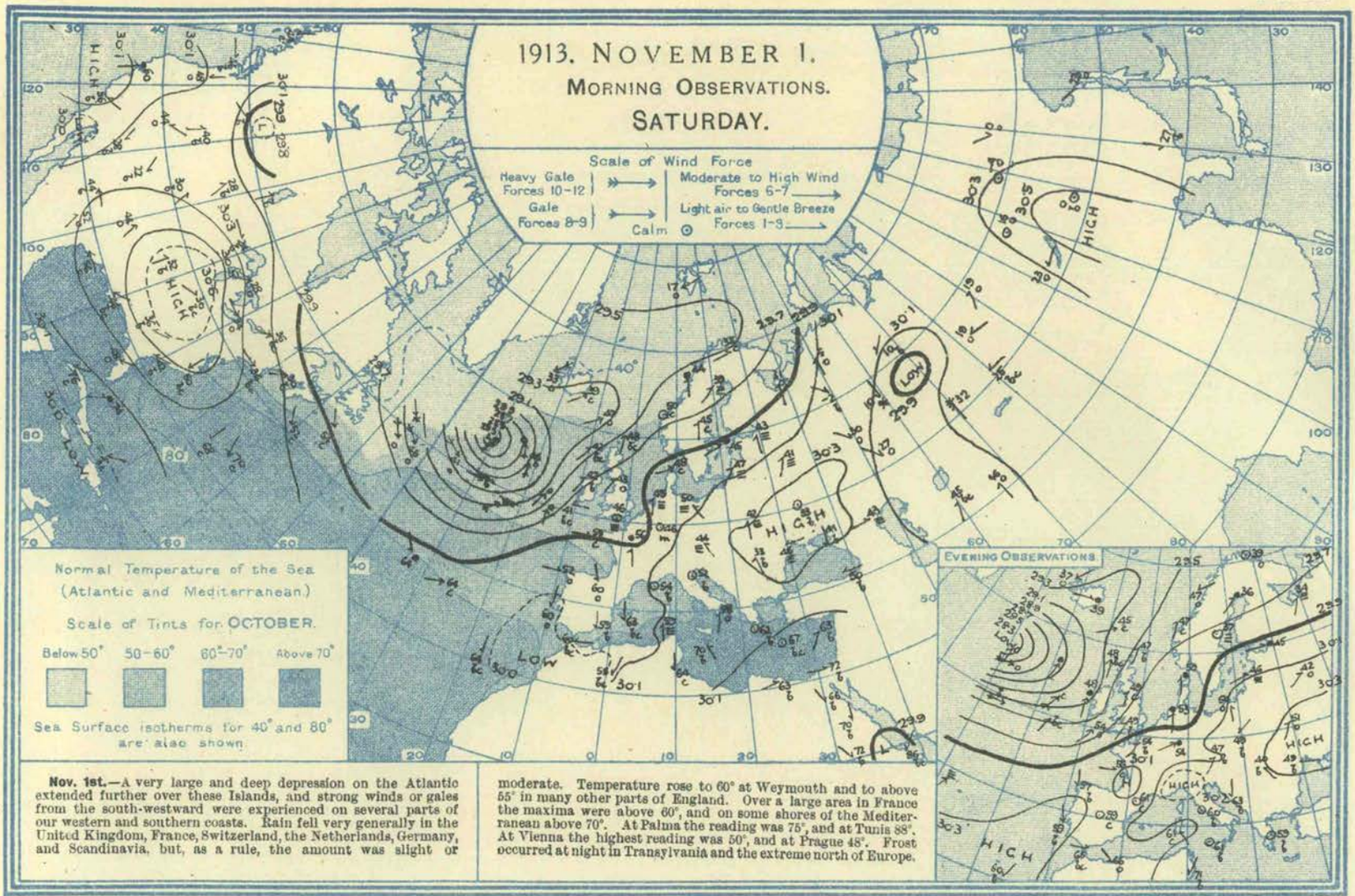
Oct. 29th.—A depression centred off the south of Ireland moved in a north-westerly direction during day, and the wind decreased in force on our south-west coasts and in Brittany. Rain was experienced in nearly all parts of the United Kingdom: 0·5in. at Pembroke and 0·9in. at Holyhead. Very heavy rain fell over a large area in Southern France, Italy and the adjacent portion of Switzerland, 1·0in. at Perpignan, 1·6in. at Clermont-Ferrand, 2·1in. at Nice, 1·2in. at Lugano, and 2·9in. at Florence. Temperature rose to 60° or a little higher in many parts of England and to a rather higher level in the Netherlands, most of France, and central Europe. Over the Mediterranean region readings above 70° were common; 77° at Patras, 82° at Palermo, 84° at Cape de Garde, and 86° at Tunis. At Prague, and also at Madrid, the maximum was only 55°.



Oct. 30th.—A secondary depression appeared over the south-west of England during the day, and the main depression centred off the north-west of these Islands moved somewhat in a northerly direction. Rain fell very generally over this country, Brittany, over a large area in Italy, and on the shores of the Adriatic; 1·1in. at Trieste and 1·2in at Naples. Temperature touched 60° at a few stations in southern England, as well as in Germany, the Netherlands, and northern France. At Buda-Pesth and at many places in southern Europe, the maxima were 70° or above, and at Tunis as high as 84°. At Madrid the thermometer rose to 54° only, and at Prague to 52°. Frost occurred at night in the far northern regions.

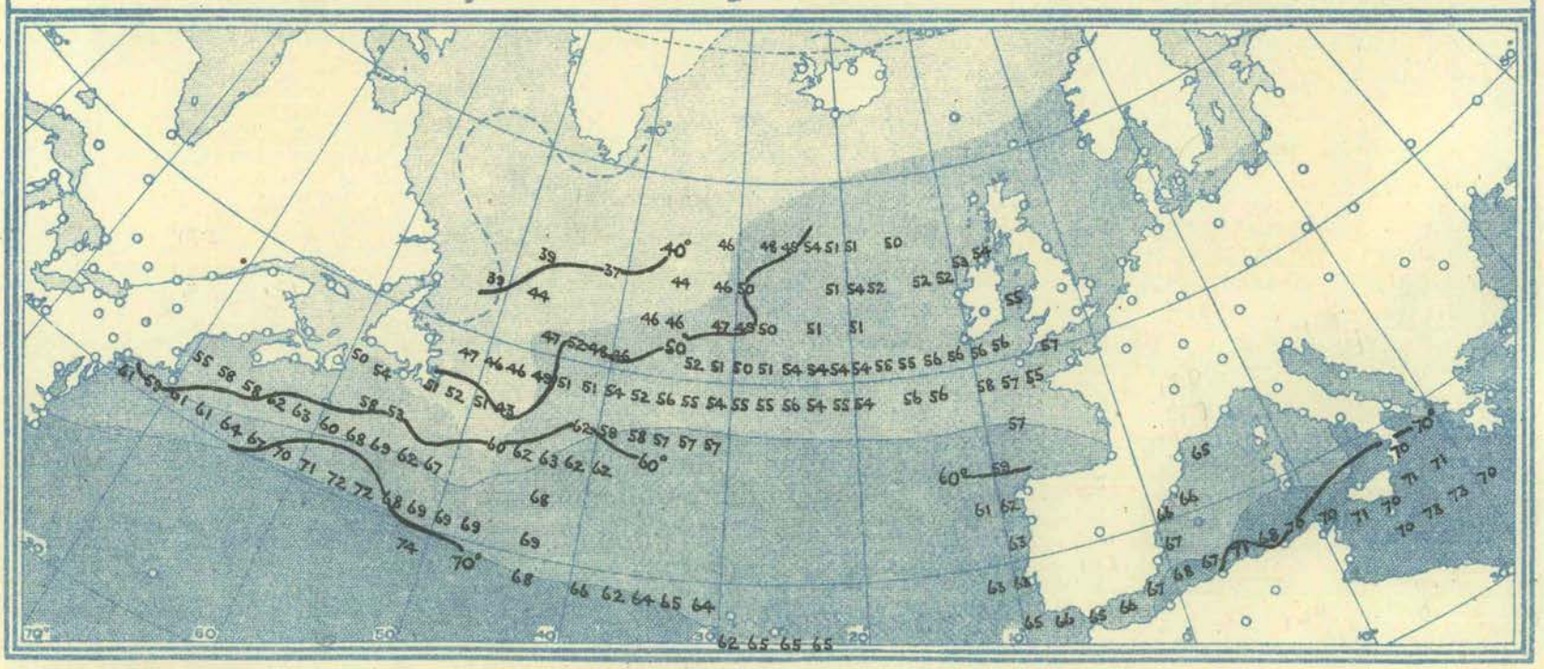


Oct. 31st.—Little change occurred in the general distribution of pressure during day, and the wind continued strong from S. and S.W. on our most north-western and northern coasts. A shallow depression caused heavy rain in the west and south-west of France; 1·0in. at Ile d'Aix. Rain was also experienced in Portugal and several parts of central and northern Europe, as well as at Paris and Brussels, and in the west and north-west of the United Kingdom. In England the maximum temperatures were between 55° and 60°, and similar readings were recorded over a large portion of the Continent. At various stations in the south of Europe the readings were above 70°; as high as 75° at Malta and Patras; at Tunis there was again a maximum of 84°.



Nov. 1st.—A very large and deep depression on the Atlantic extended further over these Islands, and strong winds or gales from the south-westward were experienced on several parts of our western and southern coasts. Rain fell very generally in the United Kingdom, France, Switzerland, the Netherlands, Germany, and Scandinavia, but, as a rule, the amount was slight or moderate. Temperature rose to 60° at Weymouth and to above 55° in many other parts of England. Over a large area in France the maxima were above 60°, and on some shores of the Mediterranean above 70°. At Palma the reading was 75°, and at Tunis 88°. At Vienna the highest reading was 50°, and at Prague 48°. Frost occurred at night in Transylvania and the extreme north of Europe.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 1ST NOVEMBER, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

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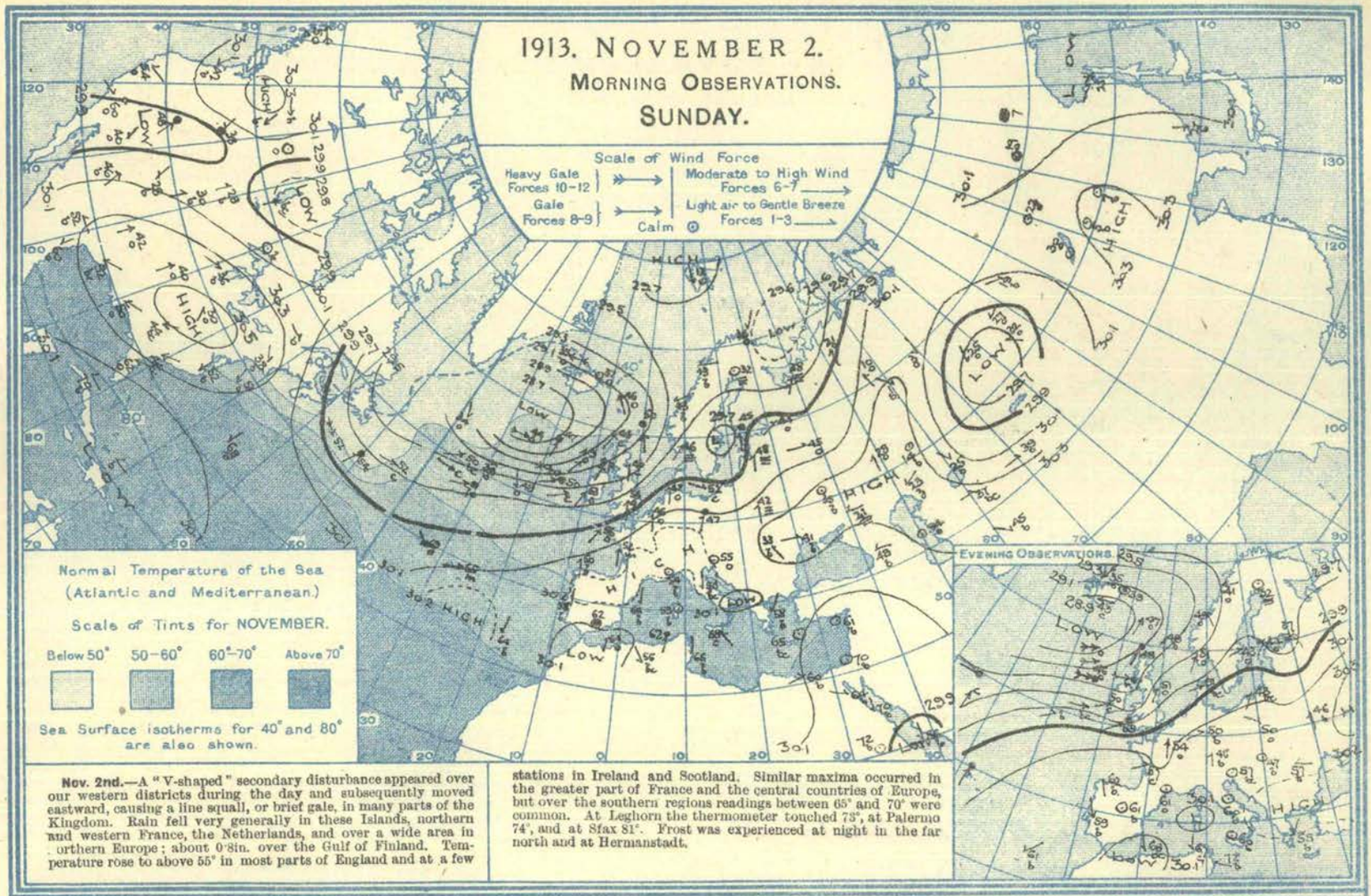
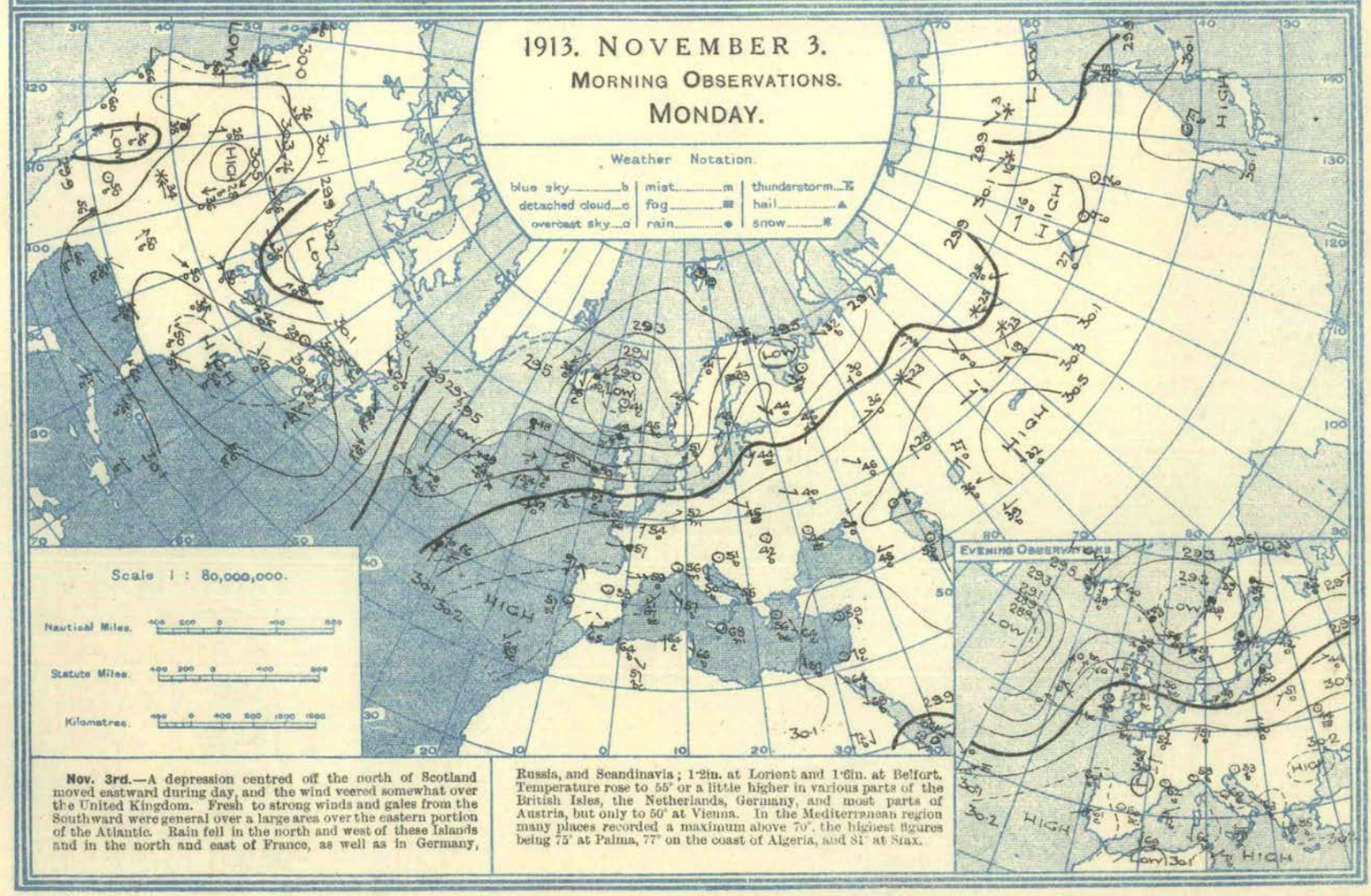
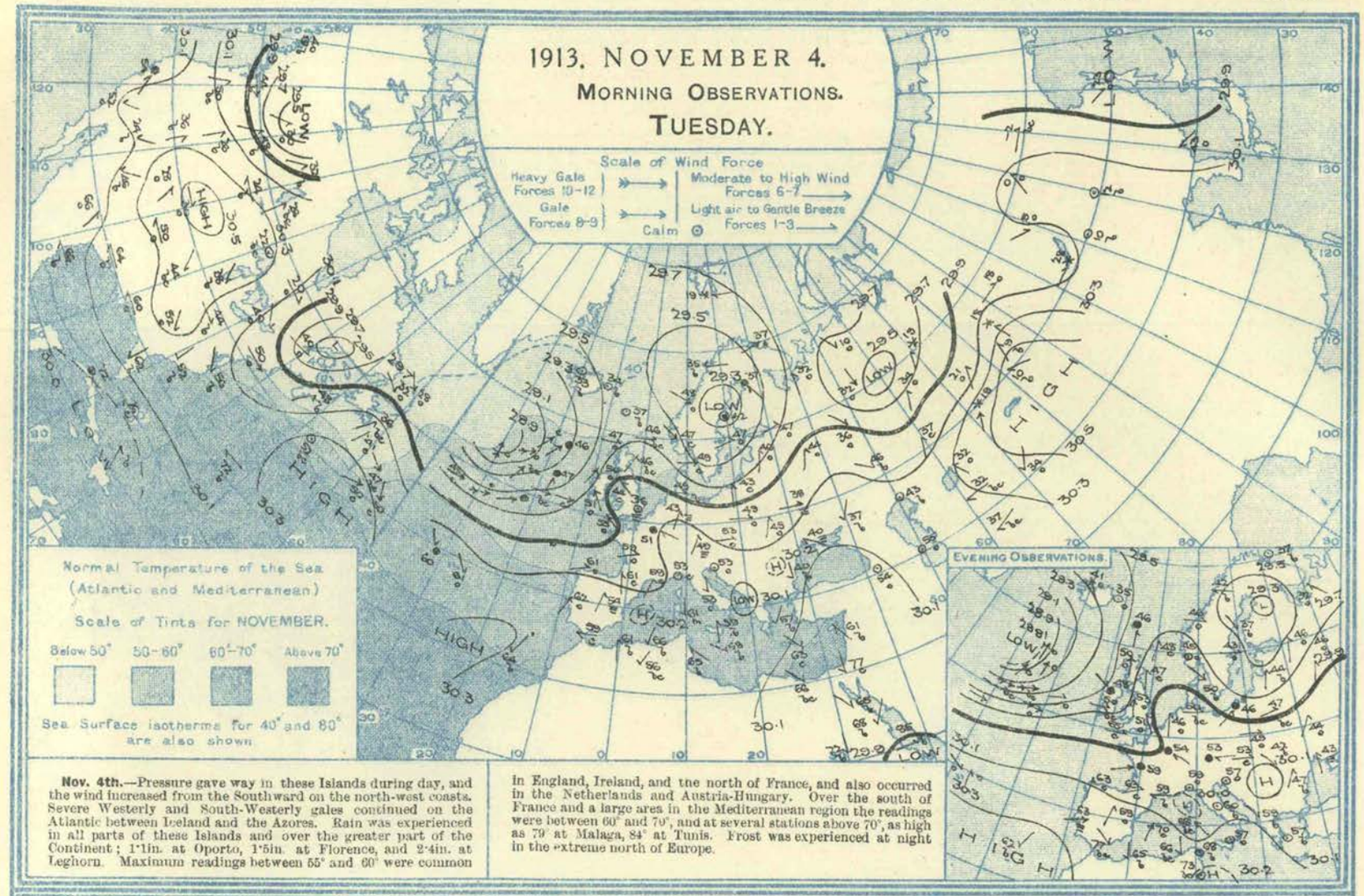


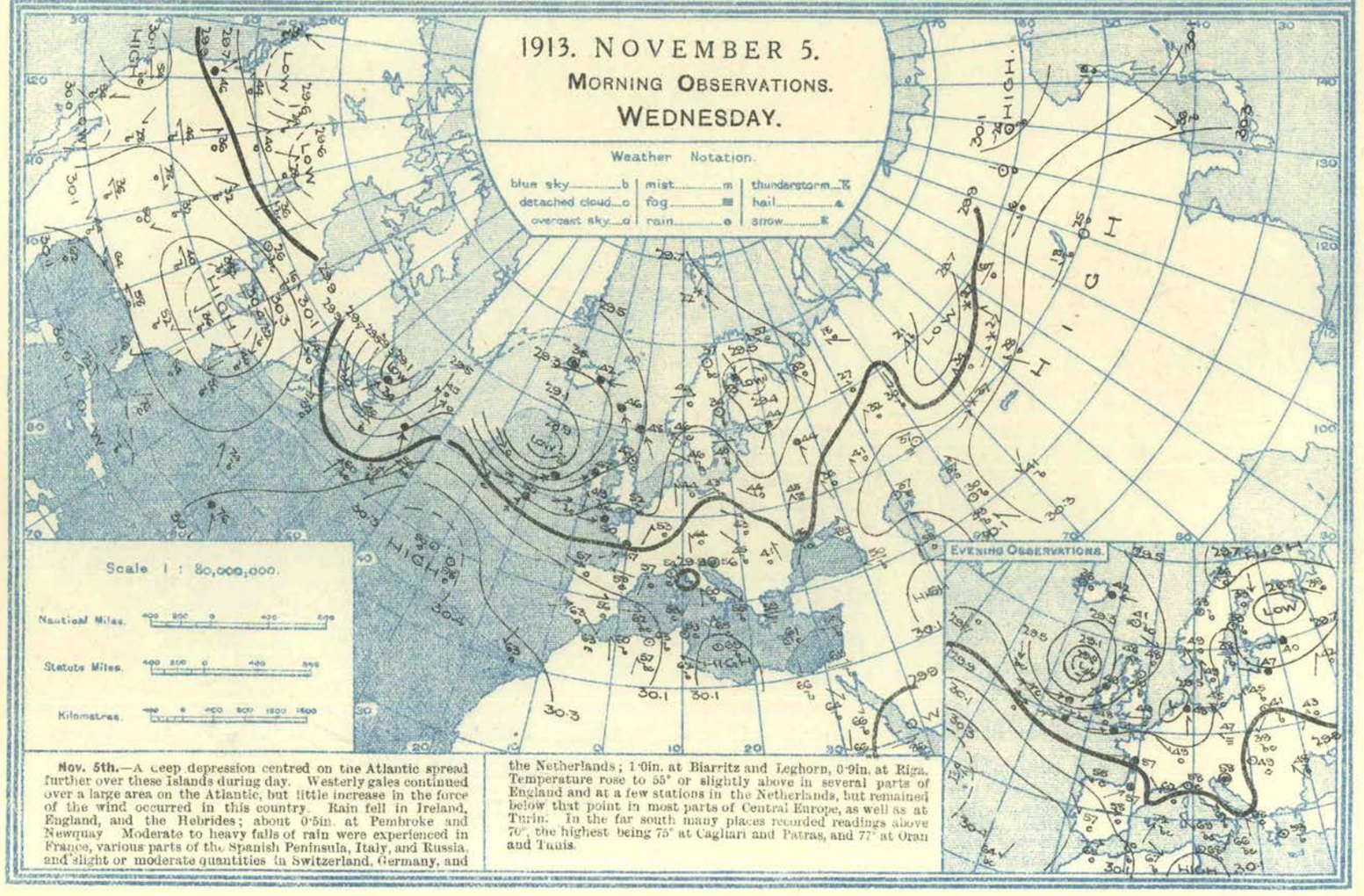
Nov. 2nd.—A "V-shaped" secondary disturbance appeared over our western districts during the day and subsequently moved eastward, causing a line squall, or brief gale, in many parts of the Kingdom. Rain fell very generally in these Islands, northern and western France, the Netherlands, and over a wide area in northern Europe; about 0·8in. over the Gulf of Finland. Temperature rose to above 55° in most parts of England and at a few stations in Ireland and Scotland. Similar maxima occurred in the greater part of France and the central countries of Europe, but over the southern regions readings between 65° and 70° were common. At Leghorn the thermometer touched 73°, at Palermo 74°, and at Sfax 81°. Frost was experienced at night in the far north and at Hermanstadt.



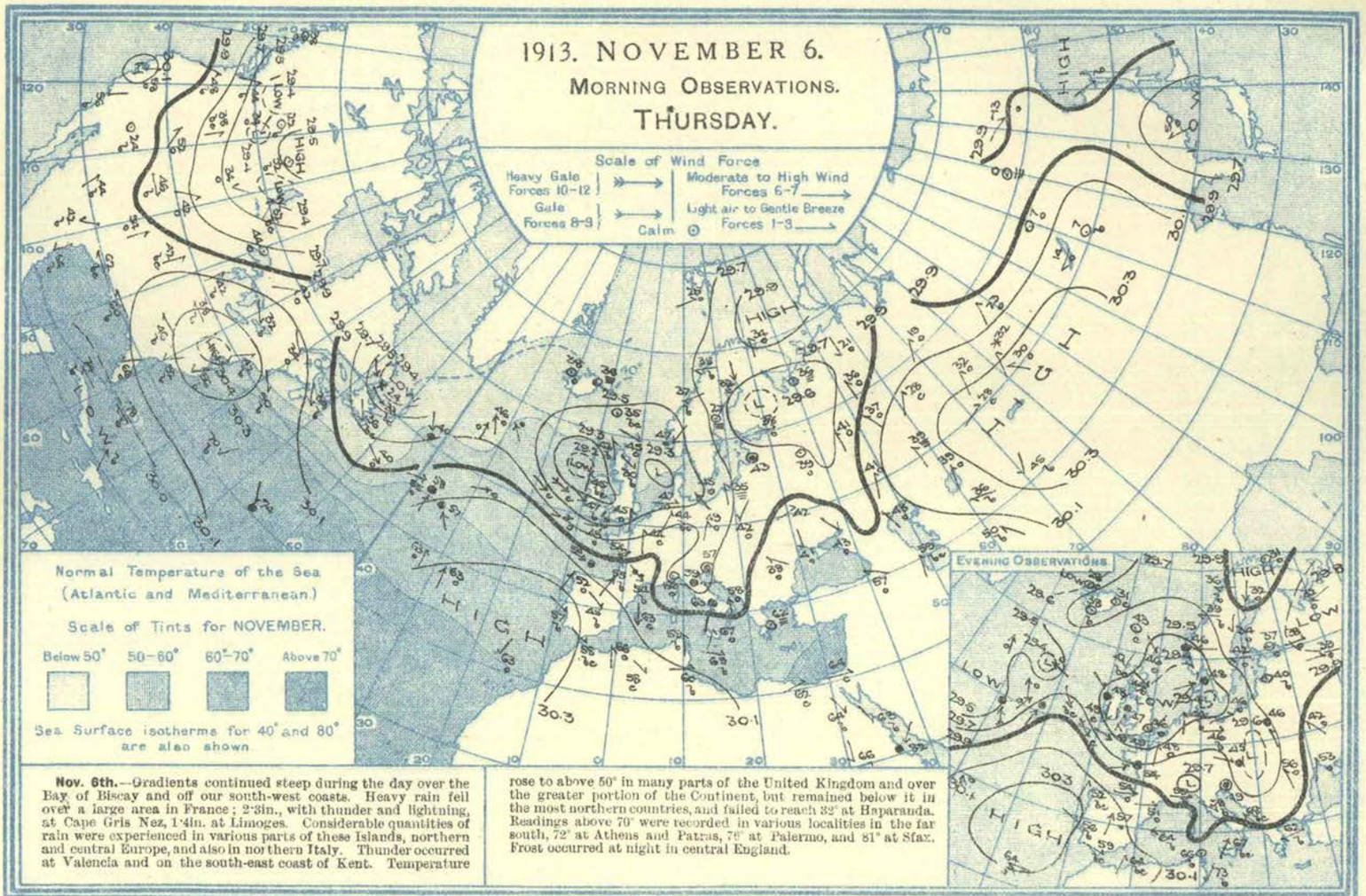
Nov. 3rd.—A depression centred off the north of Scotland moved eastward during day, and the wind veered somewhat over the United Kingdom. Fresh to strong winds and gales from the Southward were general over a large area over the eastern portion of the Atlantic. Rain fell in the north and west of these Islands and in the north and east of France, as well as in Germany, Russia, and Scandinavia; 1·2in. at Lorient and 1·6in. at Belfort. Temperature rose to 55° or a little higher in various parts of the British Isles, the Netherlands, Germany, and most parts of Austria, but only to 50° at Vienna. In the Mediterranean region many places recorded a maximum above 70°, the highest figures being 75° at Palma, 77° on the coast of Algeria, and 81° at Sfax.



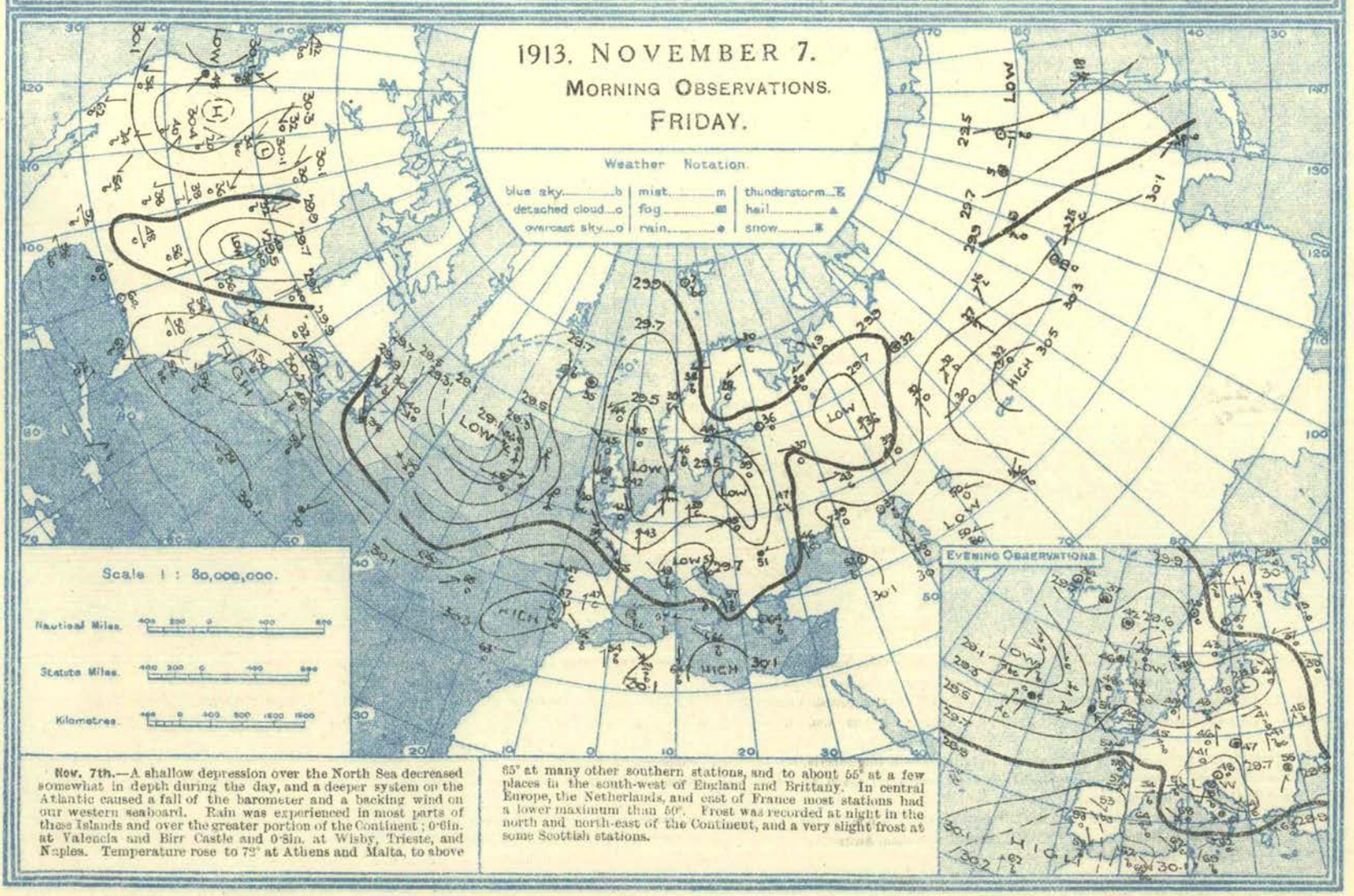
Nov. 4th.—Pressure gave way in these Islands during day, and the wind increased from the Southward on the north-west coasts. Severe Westerly and South-Westerly gales continued on the Atlantic between Iceland and the Azores. Rain was experienced in all parts of these Islands and over the greater part of the Continent; 1·1in. at Oporto, 1·5in. at Florence, and 2·4in. at Leghorn. Maximum readings between 55° and 60° were common in England, Ireland, and the north of France, and also occurred in the Netherlands and Austria-Hungary. Over the south of France and a large area in the Mediterranean region the readings were between 60° and 70°, and at several stations above 70°, as high as 79° at Malaga, 84° at Tunis. Frost was experienced at night in the extreme north of Europe.



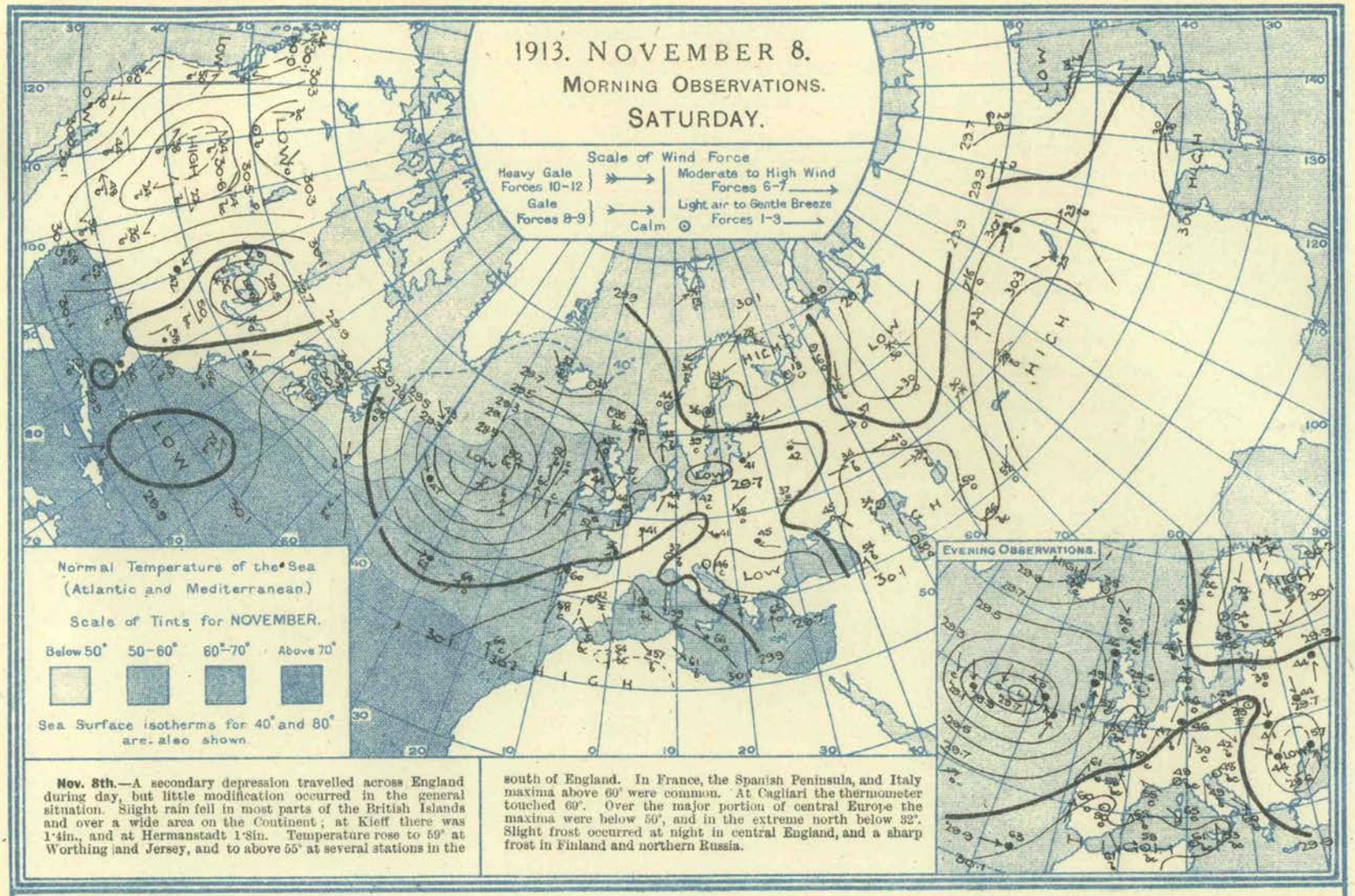
Nov. 5th.—A deep depression centred on the Atlantic spread further over these Islands during day. Westerly gales continued over a large area on the Atlantic, but little increase in the force of the wind occurred in this country. Rain fell in Ireland, England, and the Hebrides; about 0·5in. at Pembroke and Newquay. Moderate to heavy falls of rain were experienced in France, various parts of the Spanish Peninsula, Italy, and Russia, and slight or moderate quantities in Switzerland, Germany, and the Netherlands; 1·0in. at Biarritz and Leghorn, 0·9in. at Riga. Temperature rose to 55° or slightly above in several parts of England and at a few stations in the Netherlands, but remained below that point in most parts of Central Europe, as well as at Turin. In the far south many places recorded readings above 70°, the highest being 75° at Cagliari and Patras, and 77° at Oran and Tunis.



Nov. 6th.—Gradients continued steep during the day over the Bay of Biscay and off our south-west coasts. Heavy rain fell over a large area in France; 2·3in., with thunder and lightning, at Cape Gris Nez, 1·4in. at Limoges. Considerable quantities of rain were experienced in various parts of these Islands, northern and central Europe, and also in northern Italy. Thunder occurred at Valencia and on the south-east coast of Kent. Temperature rose to above 50° in many parts of the United Kingdom and over the greater portion of the Continent, but remained below it in the most northern countries, and failed to reach 32° at Haparanda. Readings above 70° were recorded in various localities in the far south, 72° at Athens and Patras, 76° at Palermo, and 81° at Sfax. Frost occurred at night in central England.

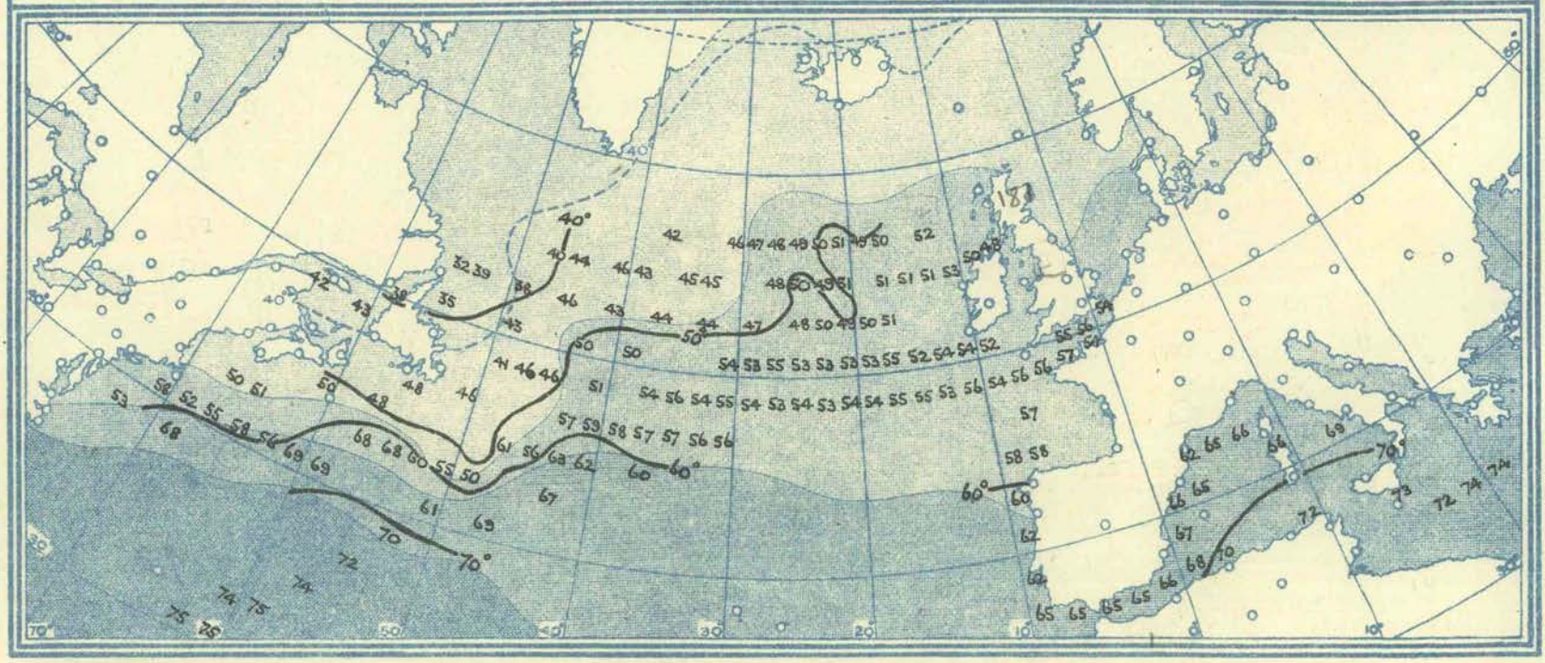


Nov. 7th.—A shallow depression over the North Sea decreased somewhat in depth during the day, and a deeper system on the Atlantic caused a fall of the barometer and a backing wind on our western seaboard. Rain was experienced in most parts of these Islands and over the greater portion of the Continent; 0·6in. at Valencia and Birr Castle and 0·8in. at Wisby, Trieste, and Naples. Temperature rose to 72° at Athens and Malta, to above 65° at many other southern stations, and to about 55° at a few places in the south-west of England and Brittany. In central Europe, the Netherlands, and east of France most stations had a lower maximum than 50°. Frost was recorded at night in the north and north-east of the Continent, and a very slight frost at some Scottish stations.



Nov. 8th.—A secondary depression travelled across England during day, but little modification occurred in the general situation. Slight rain fell in most parts of the British Islands and over a wide area on the Continent; at Kieff there was 1·4in., and at Hermanstadt 1·8in. Temperature rose to 59° at Worthing and Jersey, and to above 55° at several stations in the south of England. In France, the Spanish Peninsula, and Italy maxima above 60° were common. At Cagliari the thermometer touched 69°. Over the major portion of central Europe the maxima were below 50°, and in the extreme north below 32°. Slight frost occurred at night in central England, and a sharp frost in Finland and northern Russia.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 8TH NOVEMBER, 1913.



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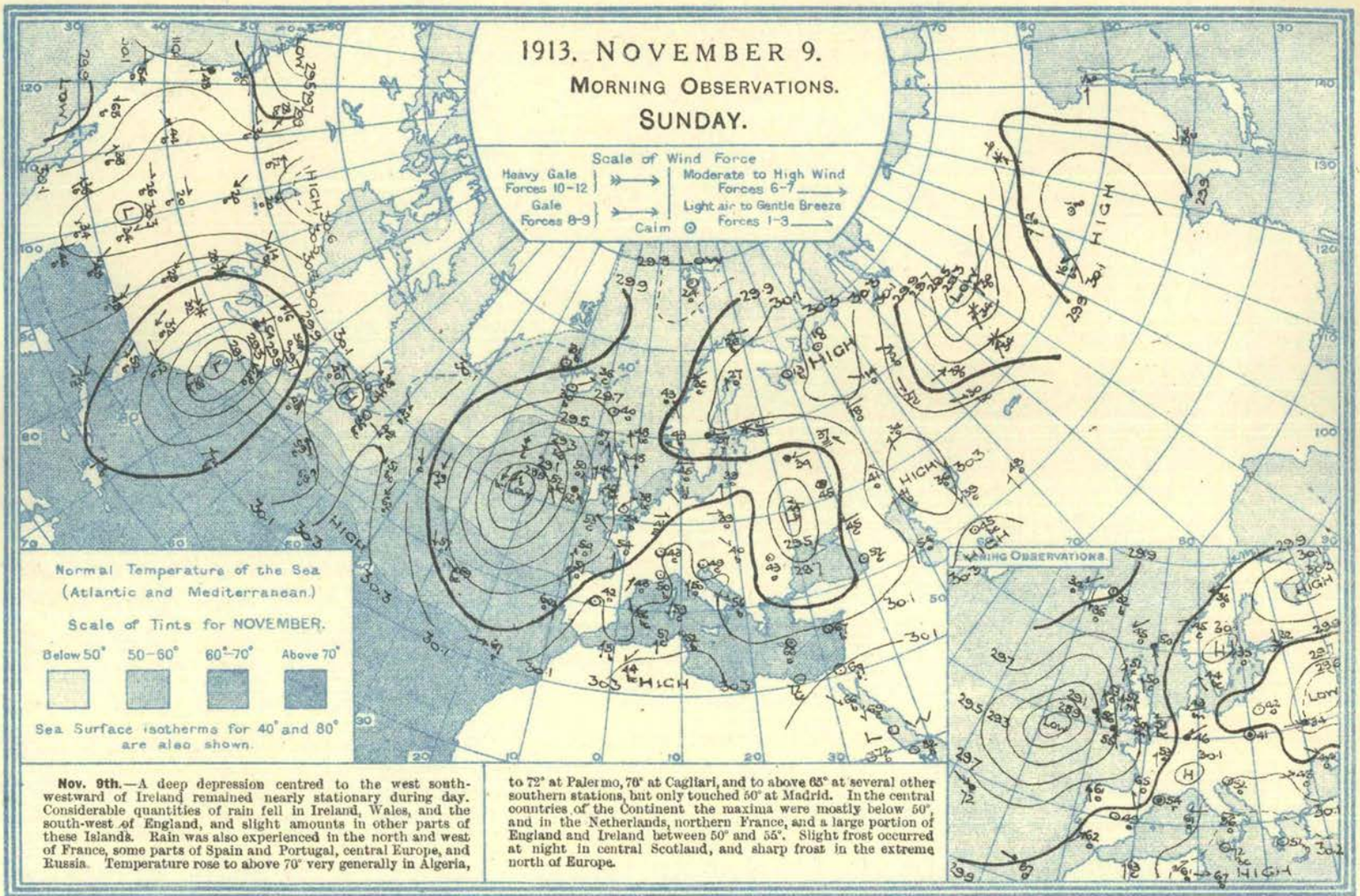
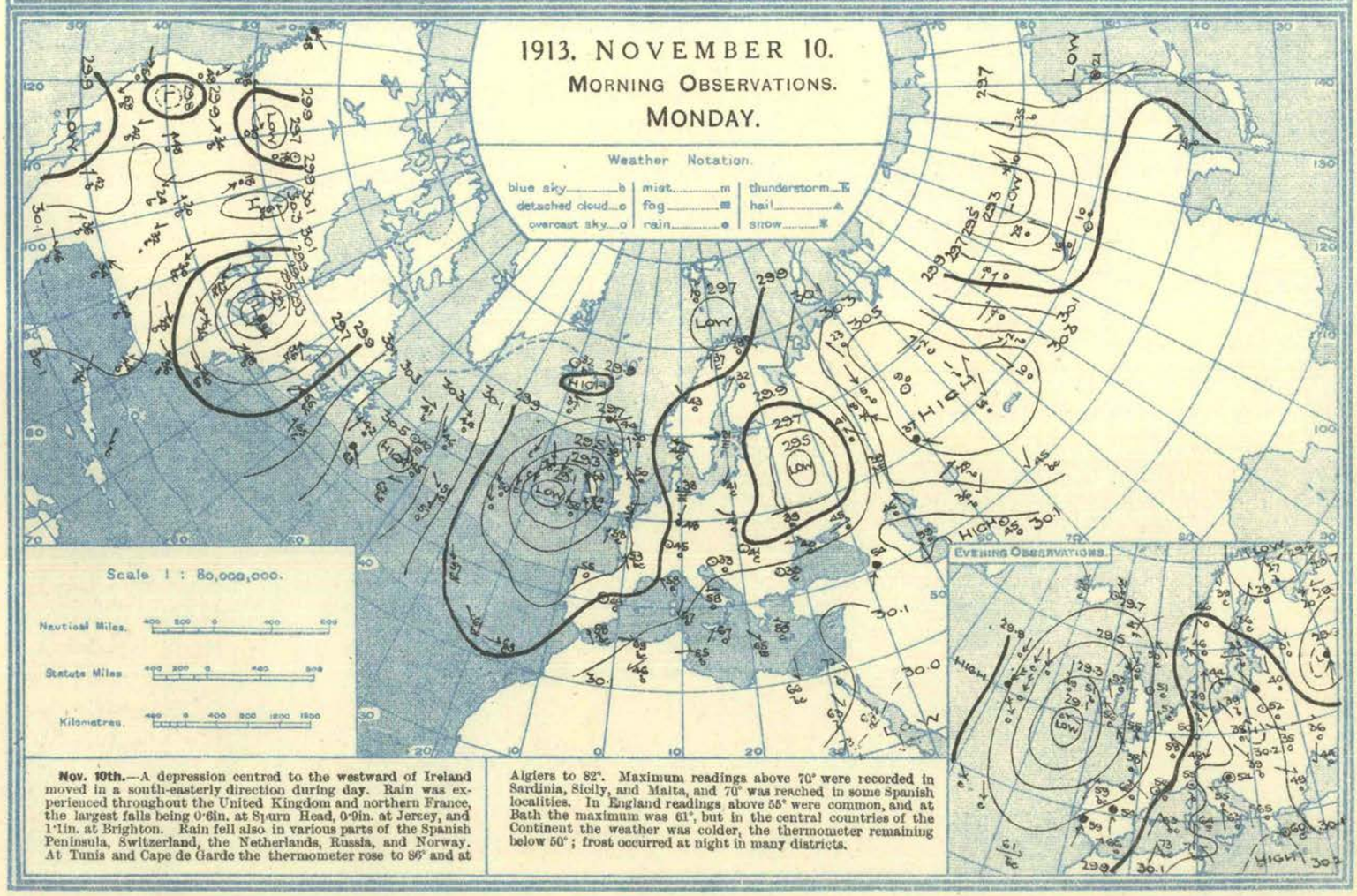
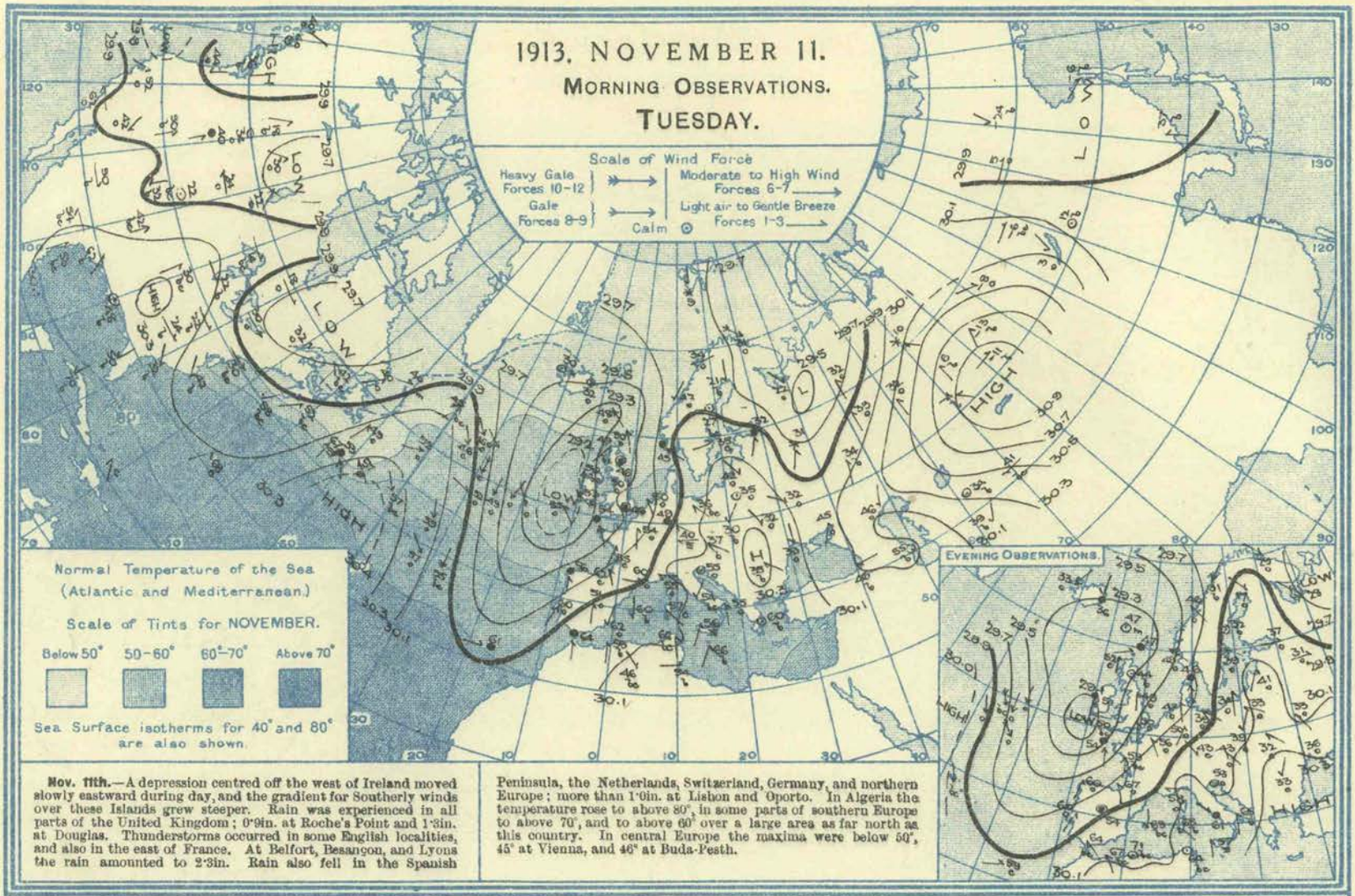


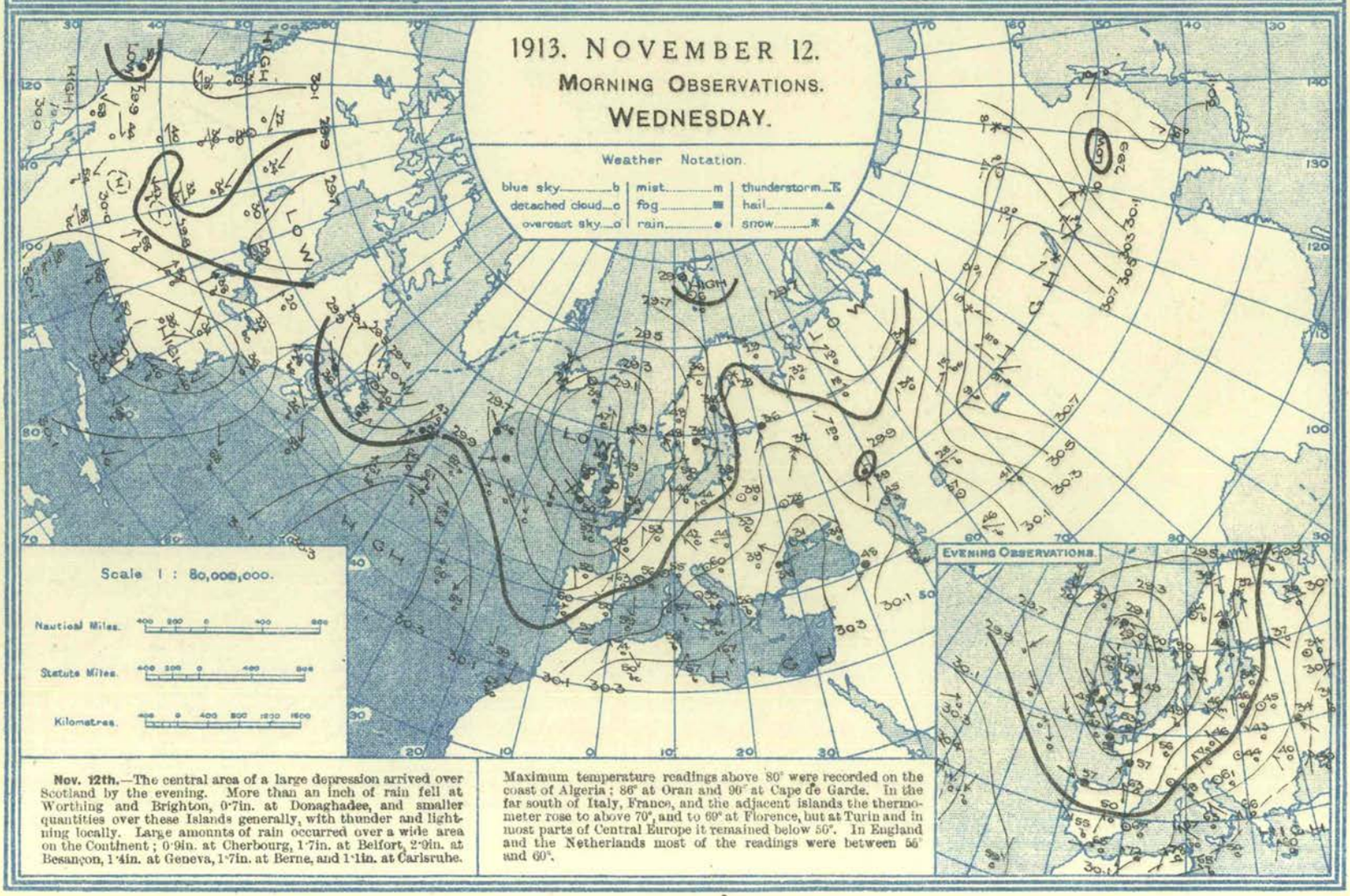
Nov. 9th.—A deep depression centred to the west south-westward of Ireland remained nearly stationary during day. Considerable quantities of rain fell in Ireland, Wales, and the south-west of England, and slight amounts in other parts of these Islands. Rain was also experienced in the north and west of France, some parts of Spain and Portugal, central Europe, and Russia. Temperature rose to above 70° very generally in Algeria, to 72° at Palermo, 76° at Cagliari, and to above 65° at several other southern stations, but only touched 50° at Madrid. In the central countries of the Continent the maxima were mostly below 50°, and in the Netherlands, northern France, and a large portion of England and Ireland between 50° and 55°. Slight frost occurred at night in central Scotland, and sharp frost in the extreme north of Europe.



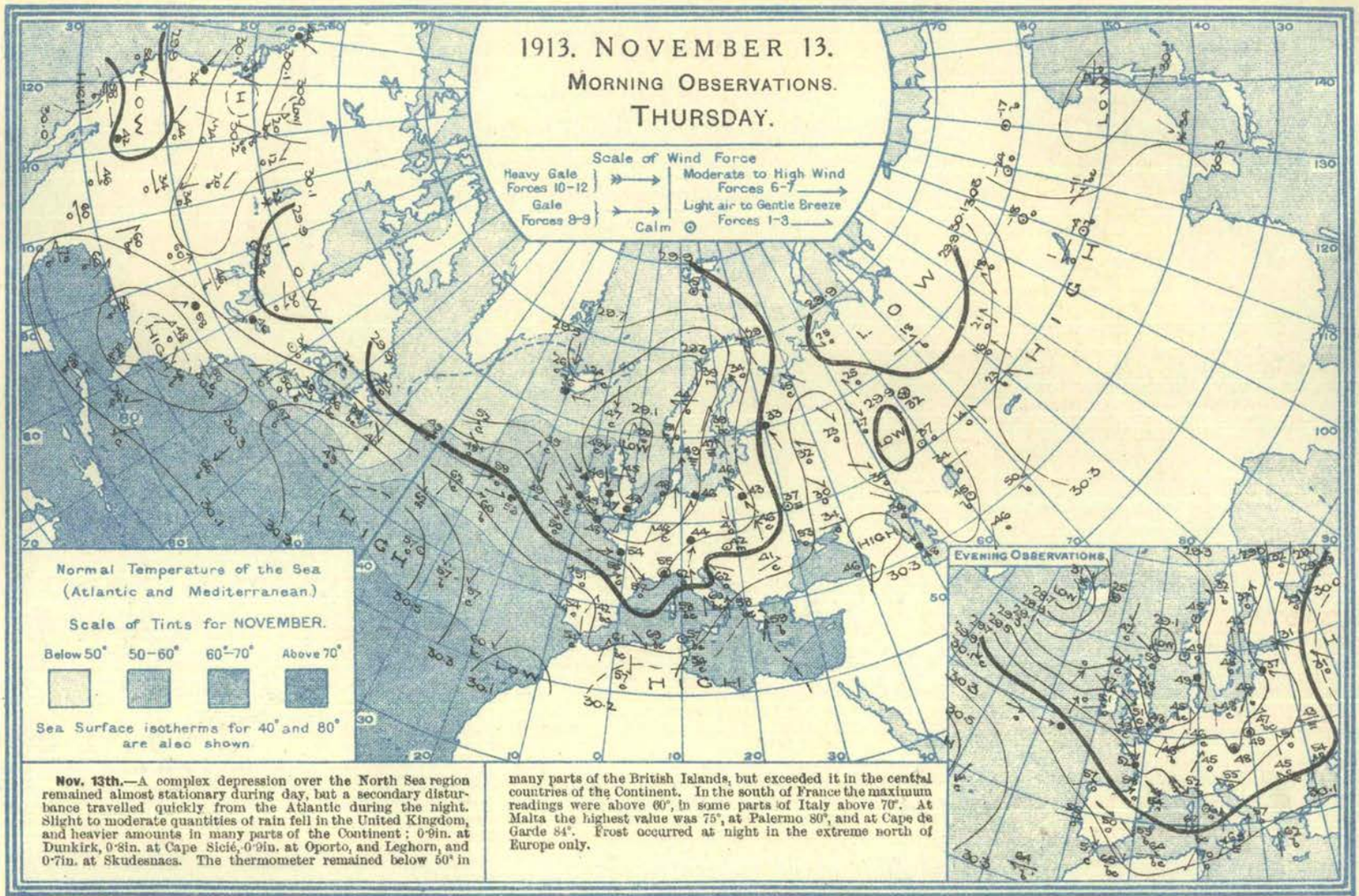
Nov. 10th.—A depression centred to the westward of Ireland moved in a south-easterly direction during day. Rain was experienced throughout the United Kingdom and northern France, the largest falls being 0·6in. at Spurn Head, 0·9in. at Jersey, and 1·1in. at Brighton. Rain fell also in various parts of the Spanish Peninsula, Switzerland, the Netherlands, Russia, and Norway. At Tunis and Cape de Garde the thermometer rose to 86° and at Algiers to 82°. Maximum readings above 70° were recorded in Sardinia, Sicily, and Malta, and 70° was reached in some Spanish localities. In England readings above 55° were common, and at Bath the maximum was 61°, but in the central countries of the Continent the weather was colder, the thermometer remaining below 50°; frost occurred at night in many districts.



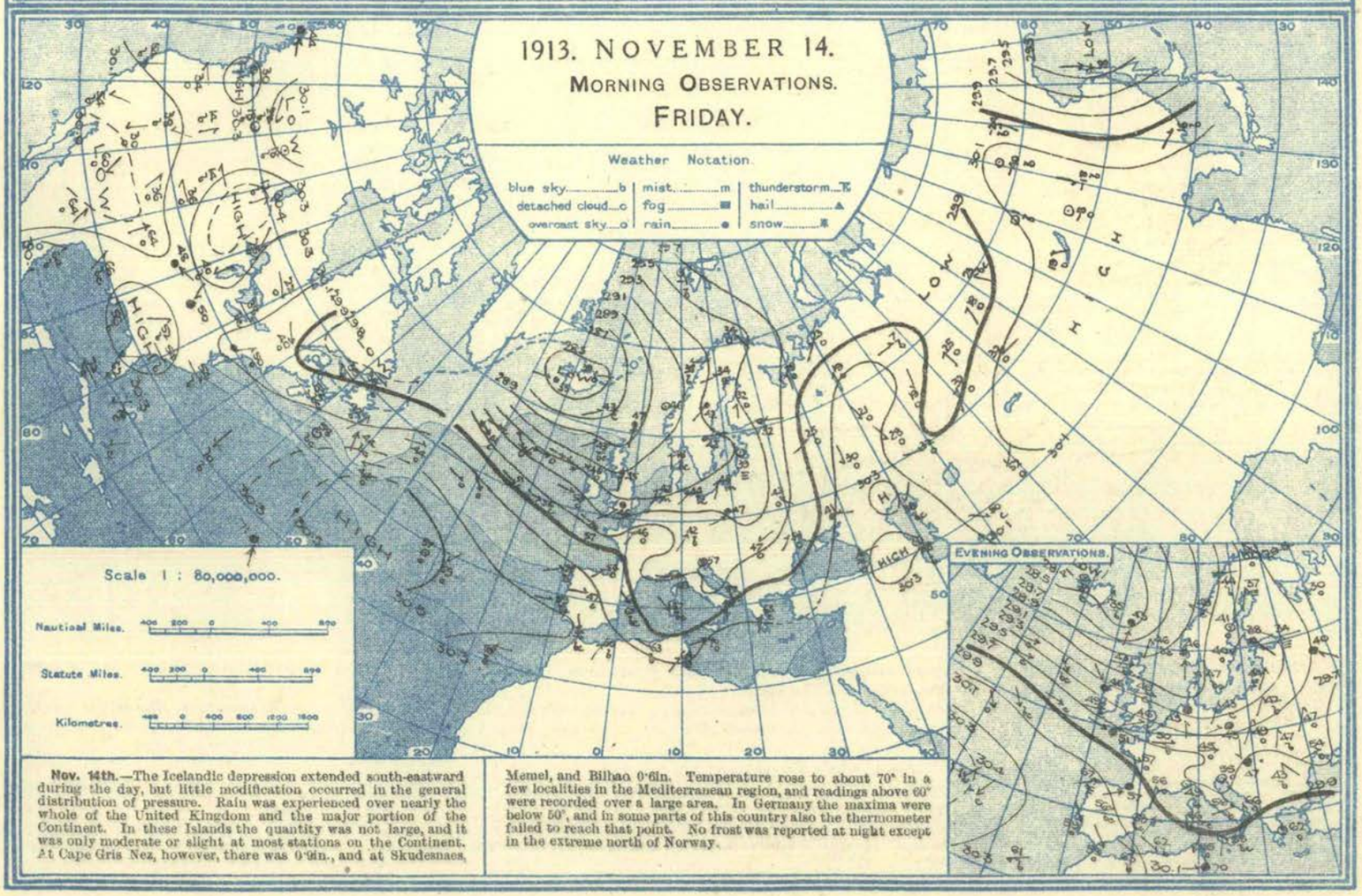
Nov. 11th.—A depression centred off the west of Ireland moved slowly eastward during day, and the gradient for Southerly winds over these Islands grew steeper. Rain was experienced in all parts of the United Kingdom; 0·9in. at Roche's Point and 1·3in. at Douglas. Thunderstorms occurred in some English localities, and also in the east of France. At Belfort, Besançon, and Lyons the rain amounted to 2·3in. Rain also fell in the Spanish Peninsula, the Netherlands, Switzerland, Germany, and northern Europe; more than 1·0in. at Lisbon and Oporto. In Algeria the temperature rose to above 80°, in some parts of southern Europe to above 70°, and to above 60° over a large area as far north as this country. In central Europe the maxima were below 50°, 45° at Vienna, and 46° at Buda-Pesth.



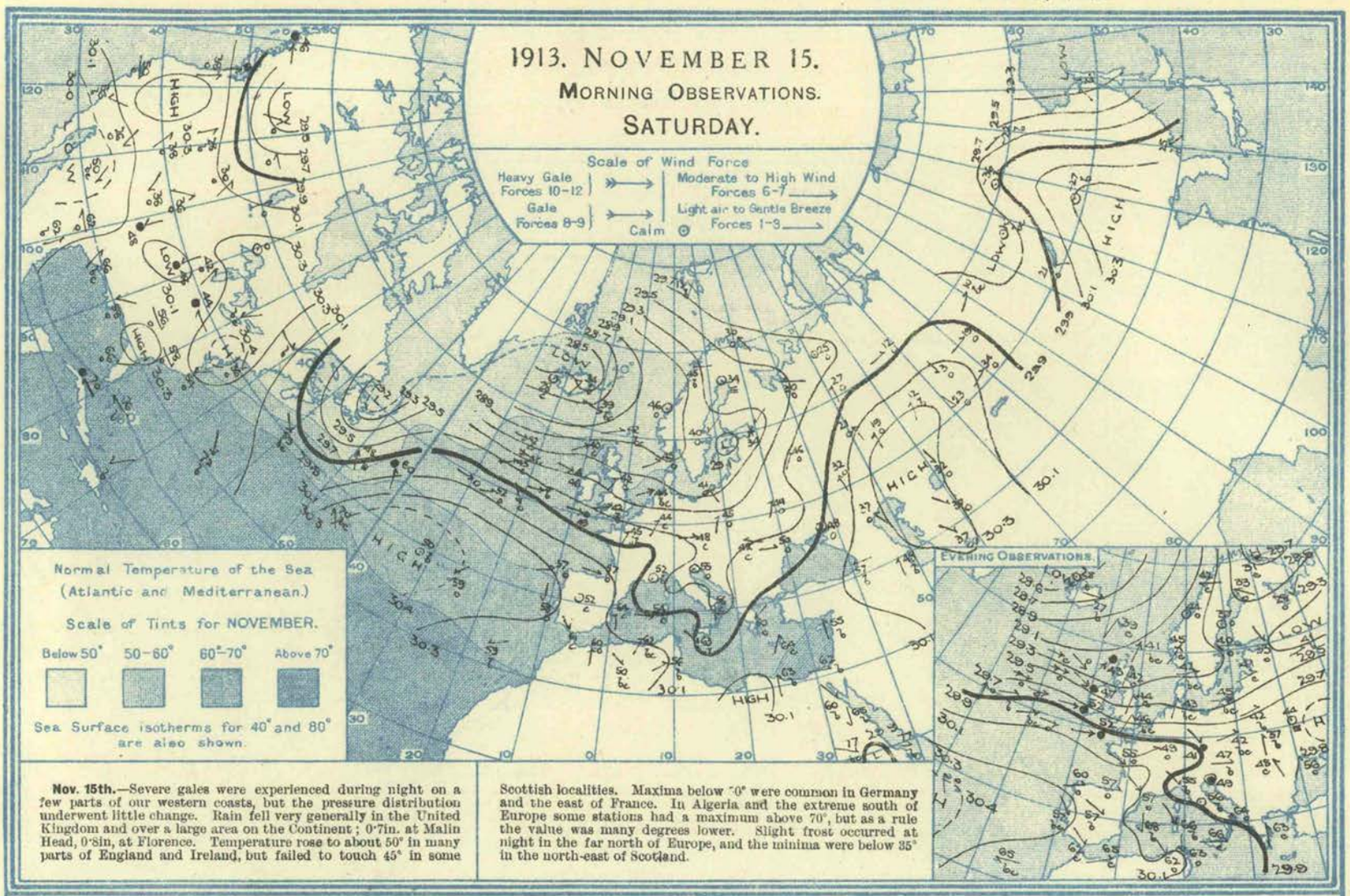
Nov. 12th.—The central area of a large depression arrived over Scotland by the evening. More than an inch of rain fell at Worthing and Brighton, 0·7in. at Donaghadee, and smaller quantities over these Islands generally, with thunder and lightning locally. Large amounts of rain occurred over a wide area on the Continent; 0·9in. at Cherbourg, 1·7in. at Belfort, 2·9in. at Besançon, 1·4in. at Geneva, 1·7in. at Berne, and 1·1in. at Carlsruhe. Maximum temperature readings above 80° were recorded on the coast of Algeria; 86° at Oran and 90° at Cape de Garde. In the far south of Italy, France, and the adjacent islands the thermometer rose to above 70°, and to 69° at Florence, but at Turin and in most parts of Central Europe it remained below 50°. In England and the Netherlands most of the readings were between 55° and 60°.



Nov. 13th.—A complex depression over the North Sea region remained almost stationary during day, but a secondary disturbance travelled quickly from the Atlantic during the night. Slight to moderate quantities of rain fell in the United Kingdom, and heavier amounts in many parts of the Continent; 0·9in. at Dunkirk, 0·8in. at Cape Sicié, 0·9in. at Oporto, and Leghorn, and 0·7in. at Skudesnaes. The thermometer remained below 50° in many parts of the British Islands, but exceeded it in the central countries of the Continent. In the south of France the maximum readings were above 60°, in some parts of Italy above 70°. At Malta the highest value was 75°, at Palermo 80°, and at Cape de Garde 84°. Frost occurred at night in the extreme north of Europe only.

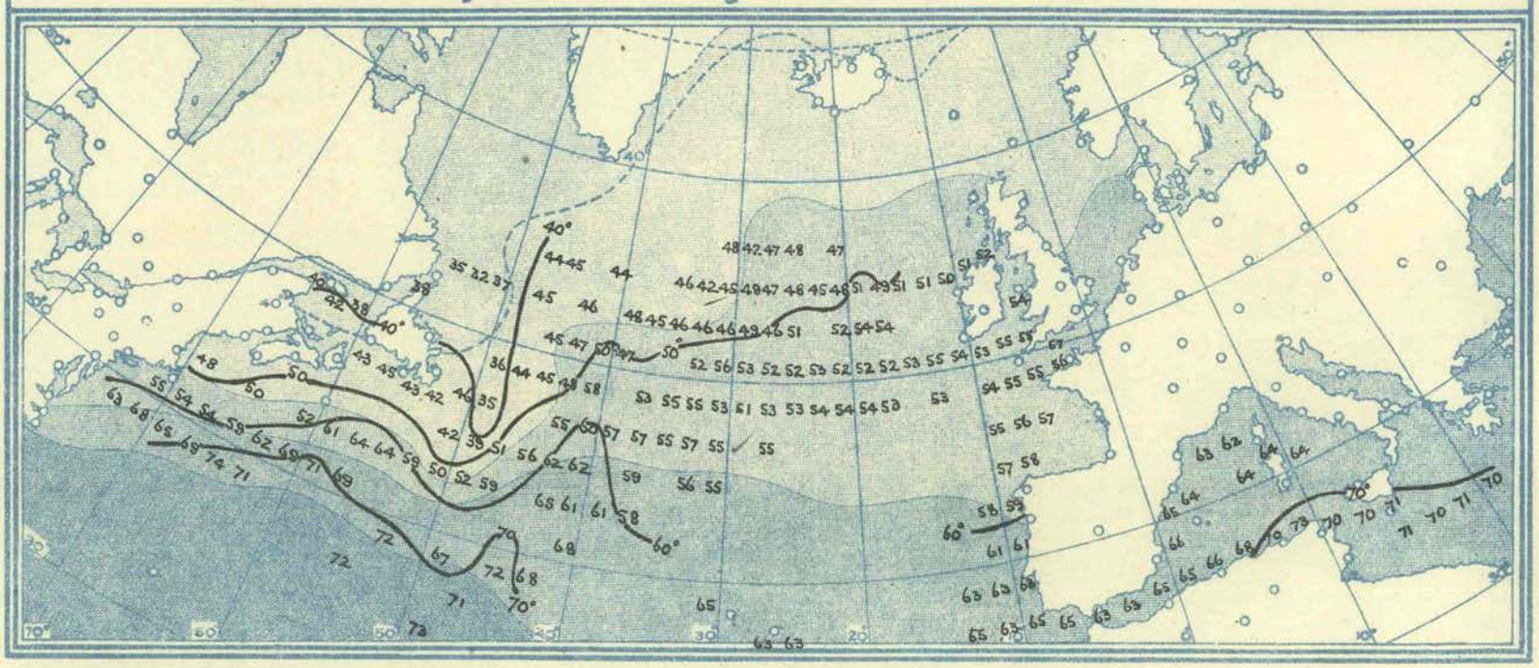


Nov. 14th.—The Icelandic depression extended south-eastward during the day, but little modification occurred in the general distribution of pressure. Rain was experienced over nearly the whole of the United Kingdom and the major portion of the Continent. In these Islands the quantity was not large, and it was only moderate or slight at most stations on the Continent. At Cape Gris Nez, however, there was 0·9in., and at Skudesnaes, Memel, and Bilbao 0·6in. Temperature rose to about 70° in a few localities in the Mediterranean region, and readings above 60° were recorded over a large area. In Germany the maxima were below 50°, and in some parts of this country also the thermometer failed to reach that point. No frost was reported at night except in the extreme north of Norway.



Nov. 15th.—Severe gales were experienced during night on a few parts of our western coasts, but the pressure distribution underwent little change. Rain fell very generally in the United Kingdom and over a large area on the Continent; 0·7in. at Malin Head, 0·8in. at Florence. Temperature rose to about 50° in many parts of England and Ireland, but failed to touch 45° in some Scottish localities. Maxima below 70° were common in Germany and the east of France. In Algeria and the extreme south of Europe some stations had a maximum above 70°, but as a rule the value was many degrees lower. Slight frost occurred at night in the far north of Europe, and the minima were below 35° in the north-east of Scotland.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 15TH NOVEMBER, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Madeira, and Algeria at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain and in the Azores. These times refer to Greenwich Mean Time.

Observations in Austria-Hungary and the Russian Empire, including Siberia, are taken at 7 a.m. local time.

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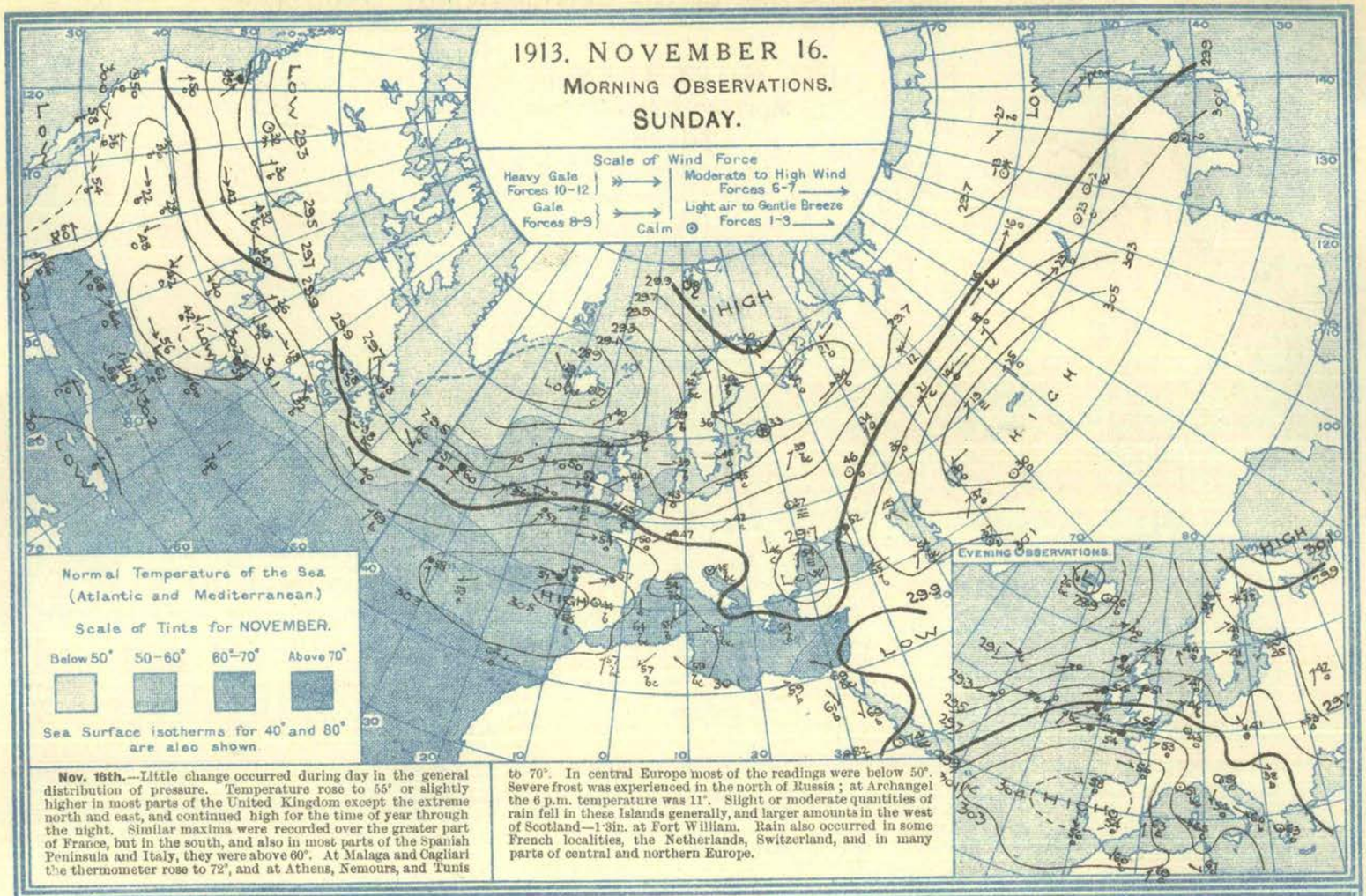
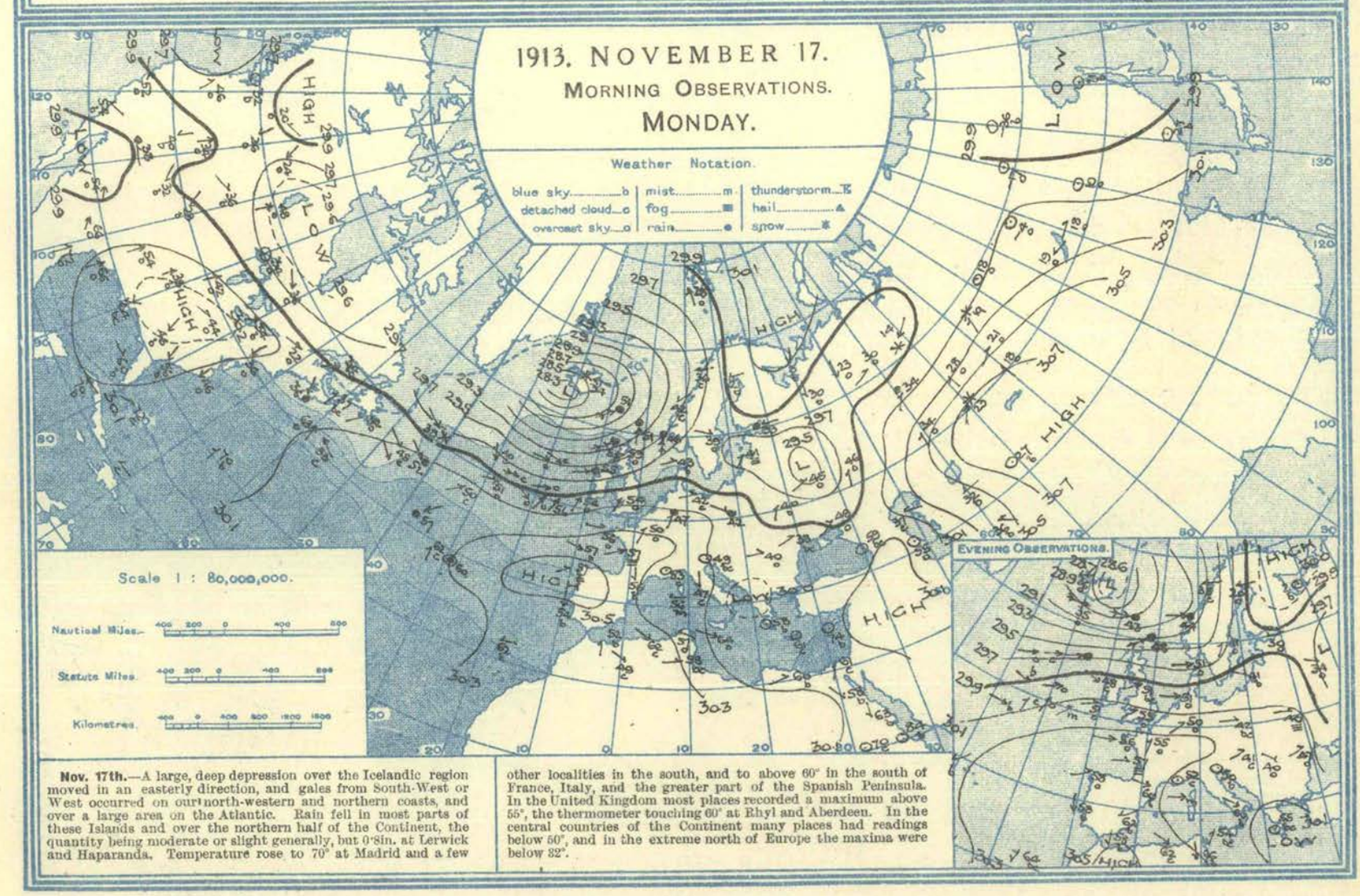
The evening charts are prepared from observations made at 6 p.m. in the British Islands, France, Germany, Denmark and Norway; at 4 p.m. in Spain; at 5 p.m. in Iceland; at 6.25 p.m. in Greece; at 7 p.m. in Holland; at 8 p.m. in Belgium, Sweden, Switzerland, Italy; and at 9.37 p.m. in Portugal and 9 p.m. in the Azores. In Austria-Hungary and the Russian Empire (including Siberia) they are taken at 9 p.m. local time.

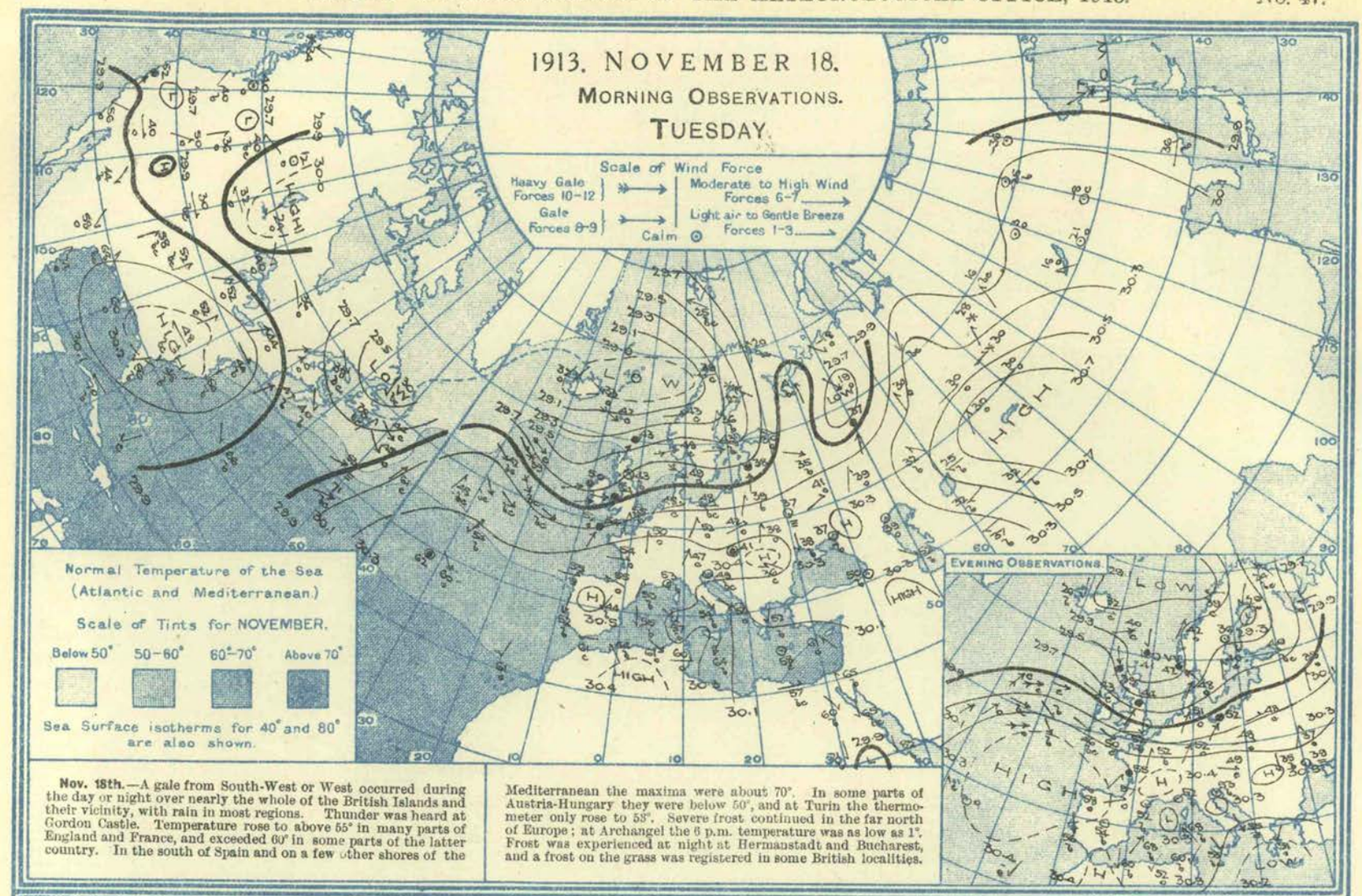
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40° and 80° are shown by blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



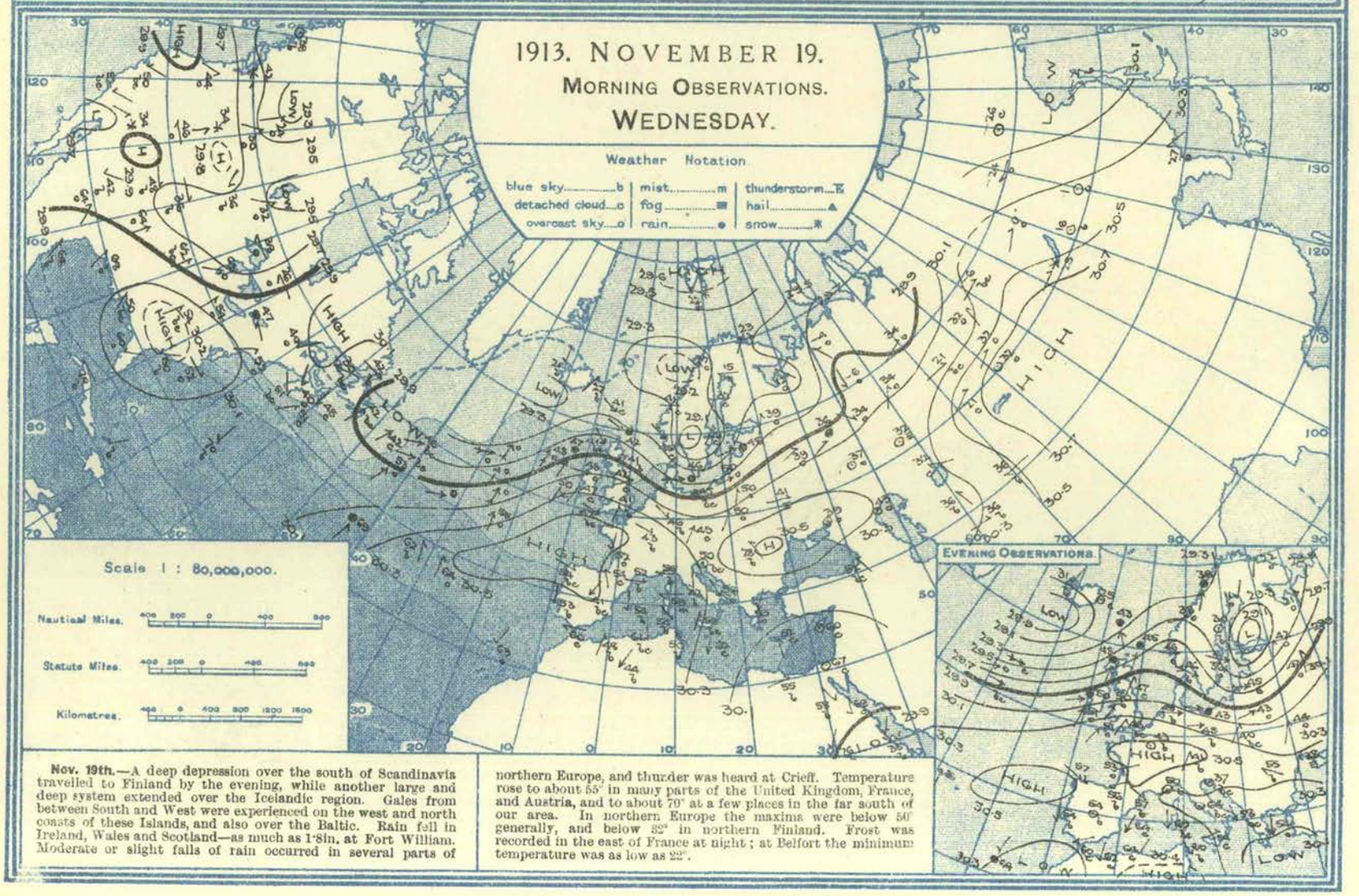
Nov. 16th.—Little change occurred during day in the general distribution of pressure. Temperature rose to 55° or slightly higher in most parts of the United Kingdom except the extreme north and east, and continued high for the time of year through the night. Similar maxima were recorded over the greater part of France, but in the south, and also in most parts of the Spanish Peninsula and Italy, they were above 60°. At Malaga and Cagliari the thermometer rose to 72°, and at Athens, Nemours, and Tunis to 70°. In central Europe most of the readings were below 50°. Severe frost was experienced in the north of Russia; at Archangel the 6 p.m. temperature was 11°. Slight or moderate quantities of rain fell in these Islands generally, and larger amounts in the west of Scotland—1·3in. at Fort William. Rain also occurred in some French localities, the Netherlands, Switzerland, and in many parts of central and northern Europe.



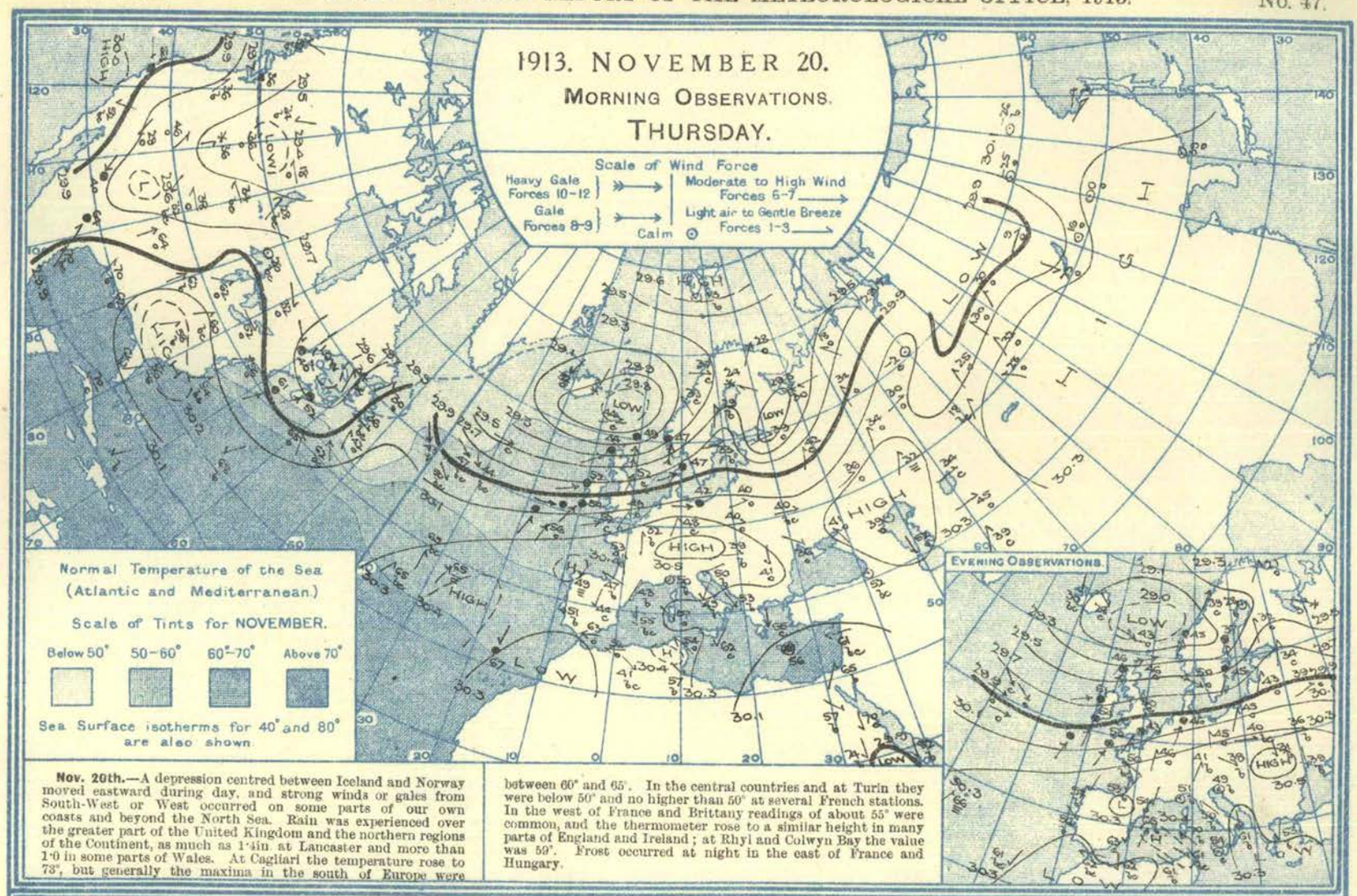
Nov. 17th.—A large, deep depression over the Icelandic region moved in an easterly direction, and gales from South-West or West occurred on our north-western and northern coasts, and over a large area on the Atlantic. Rain fell in most parts of these Islands and over the northern half of the Continent, the quantity being moderate or slight generally, but 0·8in. at Lerwick and Haparanda. Temperature rose to 70° at Madrid and a few other localities in the south, and to above 60° in the south of France, Italy, and the greater part of the Spanish Peninsula. In the United Kingdom most places recorded a maximum above 55°, the thermometer touching 60° at Rhyl and Aberdeen. In the central countries of the Continent many places had readings below 50°, and in the extreme north of Europe the maxima were below 32°.



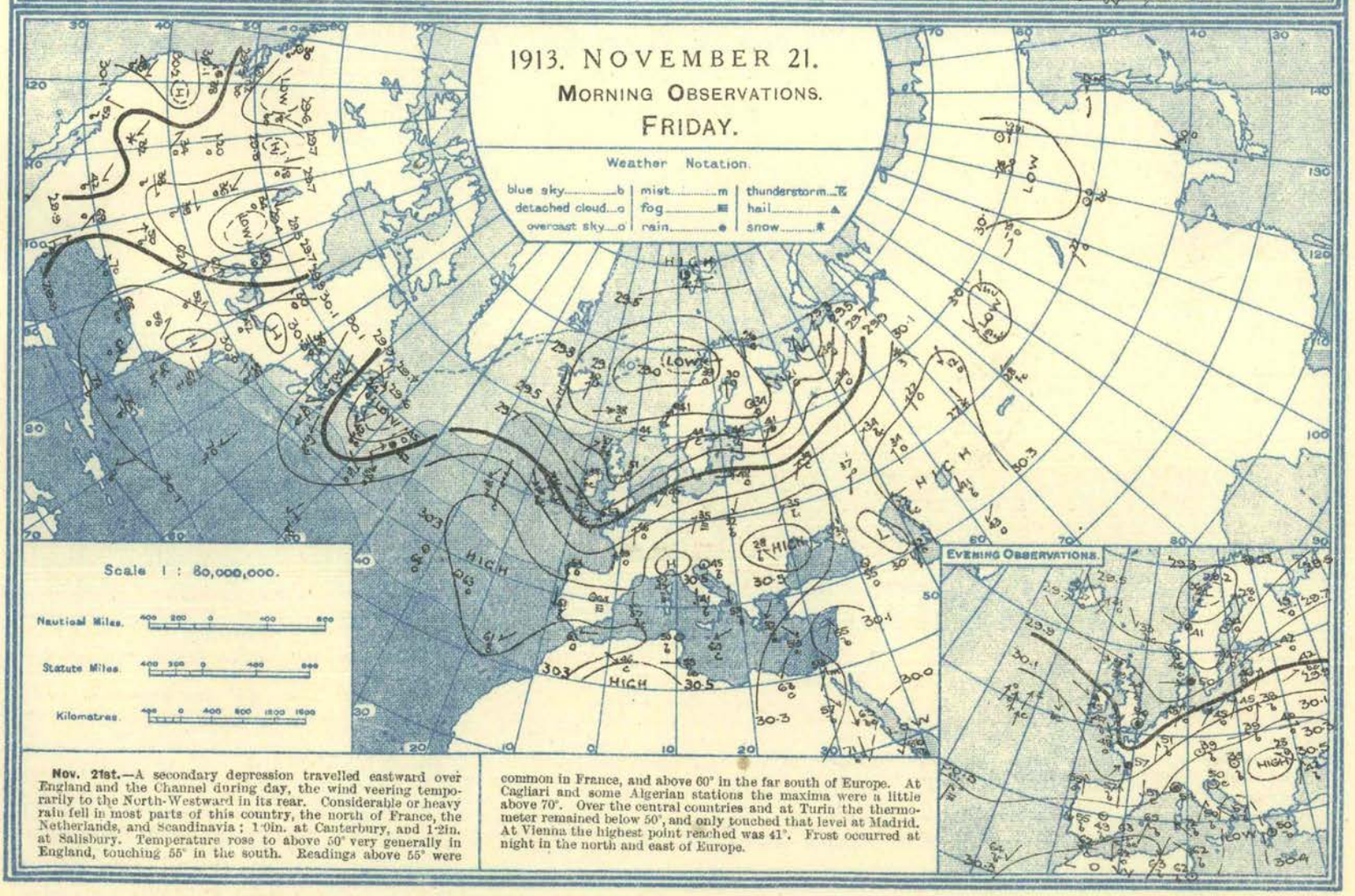
Nov. 18th.—A gale from South-West or West occurred during the day or night over nearly the whole of the British Islands and their vicinity, with rain in most regions. Thunder was heard at Gordon Castle. Temperature rose to above 55° in many parts of England and France, and exceeded 60° in some parts of the latter country. In the south of Spain and on a few other shores of the Mediterranean the maxima were about 70°. In some parts of Austria-Hungary they were below 50°, and at Turin the thermometer only rose to 53°. Severe frost continued in the far north of Europe; at Archangel the 6 p.m. temperature was as low as 1°. Frost was experienced at night at Hermanstadt and Bucharest, and a frost on the grass was registered in some British localities.



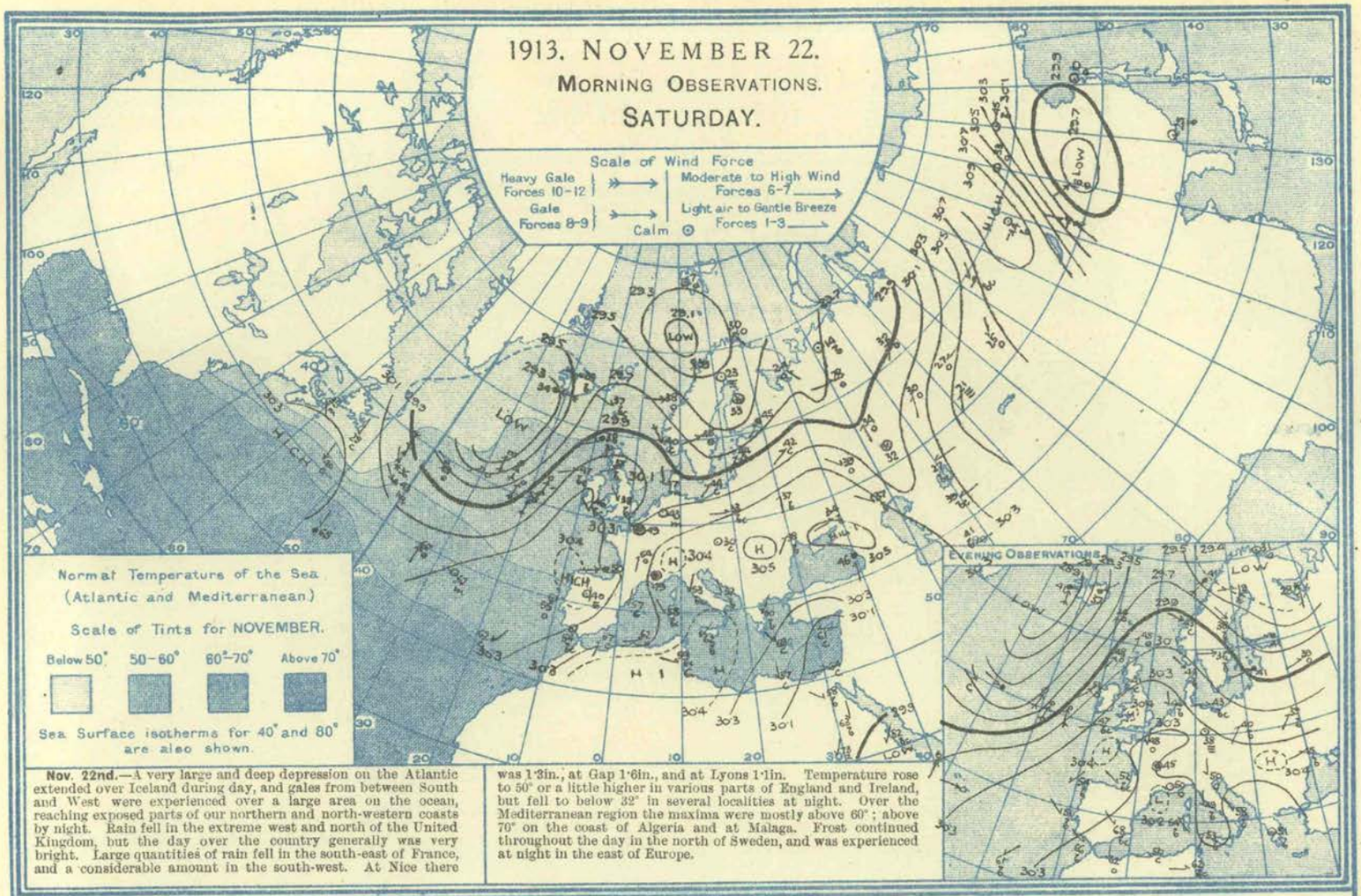
Nov. 19th.—A deep depression over the south of Scandinavia travelled to Finland by the evening, while another large and deep system extended over the Icelandic region. Gales from between South and West were experienced on the west and north coasts of these Islands, and also over the Baltic. Rain fell in Ireland, Wales and Scotland—as much as 1·8in. at Fort William. Moderate or slight falls of rain occurred in several parts of northern Europe, and thunder was heard at Crieff. Temperature rose to about 55° in many parts of the United Kingdom, France, and Austria, and to about 70° at a few places in the far south of our area. In northern Europe the maxima were below 50° generally, and below 32° in northern Finland. Frost was recorded in the east of France at night; at Belfort the minimum temperature was as low as 22°.



Nov. 20th.—A depression centred between Iceland and Norway moved eastward during day, and strong winds or gales from South-West or West occurred on some parts of our own coasts and beyond the North Sea. Rain was experienced over the greater part of the United Kingdom and the northern regions of the Continent, as much as 1·4in. at Lancaster and more than 1·0 in some parts of Wales. At Cagliari the temperature rose to 73°, but generally the maxima in the south of Europe were between 60° and 65°. In the central countries and at Turin they were below 50° and no higher than 50° at several French stations. In the west of France and Brittany readings of about 55° were common, and the thermometer rose to a similar height in many parts of England and Ireland; at Rhyl and Colwyn Bay the value was 59°. Frost occurred at night in the east of France and Hungary.

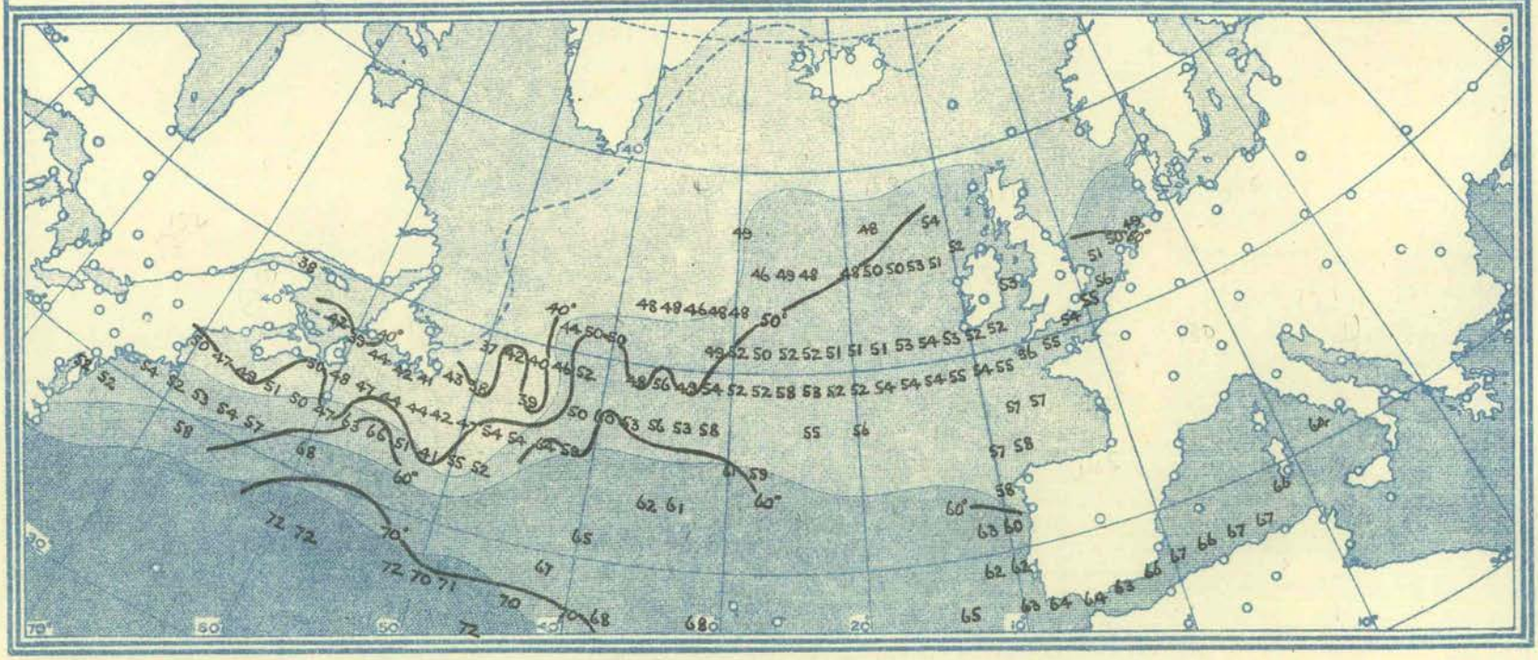


Nov. 21st.—A secondary depression travelled eastward over England and the Channel during day, the wind veering temporarily to the North-Westward in its rear. Considerable or heavy rain fell in most parts of this country, the north of France, the Netherlands, and Scandinavia; 1·0in. at Canterbury, and 1·2in. at Salisbury. Temperature rose to above 50° very generally in England, touching 55° in the south. Readings above 55° were common in France, and above 60° in the far south of Europe. At Cagliari and some Algerian stations the maxima were a little above 70°. Over the central countries and at Turin the thermometer remained below 50°, and only touched that level at Madrid. At Vienna the highest point reached was 41°. Frost occurred at night in the north and east of Europe.



Nov. 22nd.—A very large and deep depression on the Atlantic extended over Iceland during day, and gales from between South and West were experienced over a large area on the ocean, reaching exposed parts of our northern and north-western coasts by night. Rain fell in the extreme west and north of the United Kingdom, but the day over the country generally was very bright. Large quantities of rain fell in the south-east of France, and a considerable amount in the south-west. At Nice there was 1·3in., at Gap 1·6in., and at Lyons 1·1in. Temperature rose to 50° or a little higher in various parts of England and Ireland, but fell to below 32° in several localities at night. Over the Mediterranean region the maxima were mostly above 60°; above 70° on the coast of Algeria and at Malaga. Frost continued throughout the day in the north of Sweden, and was experienced at night in the east of Europe.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 22ND NOVEMBER, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

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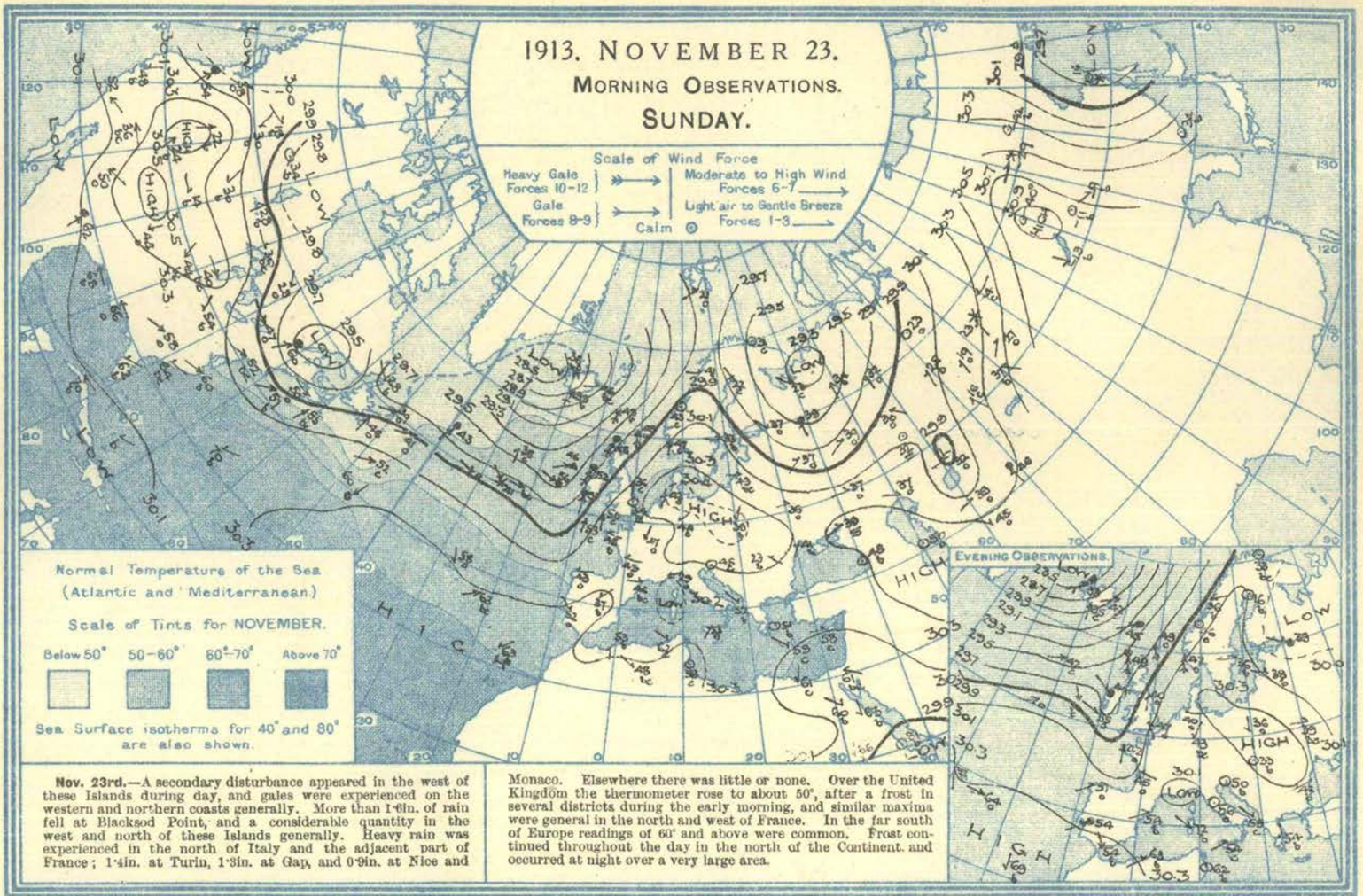
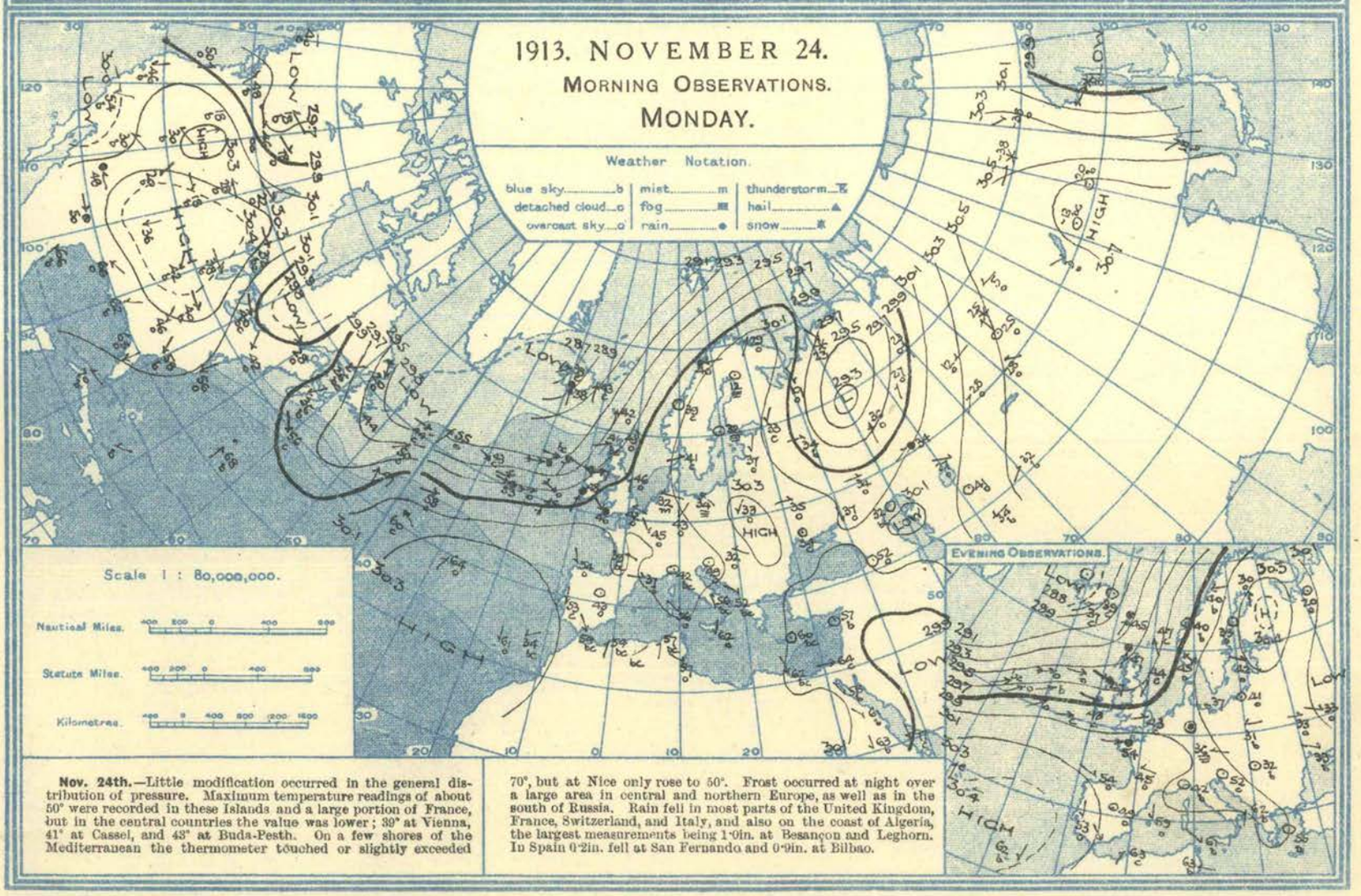
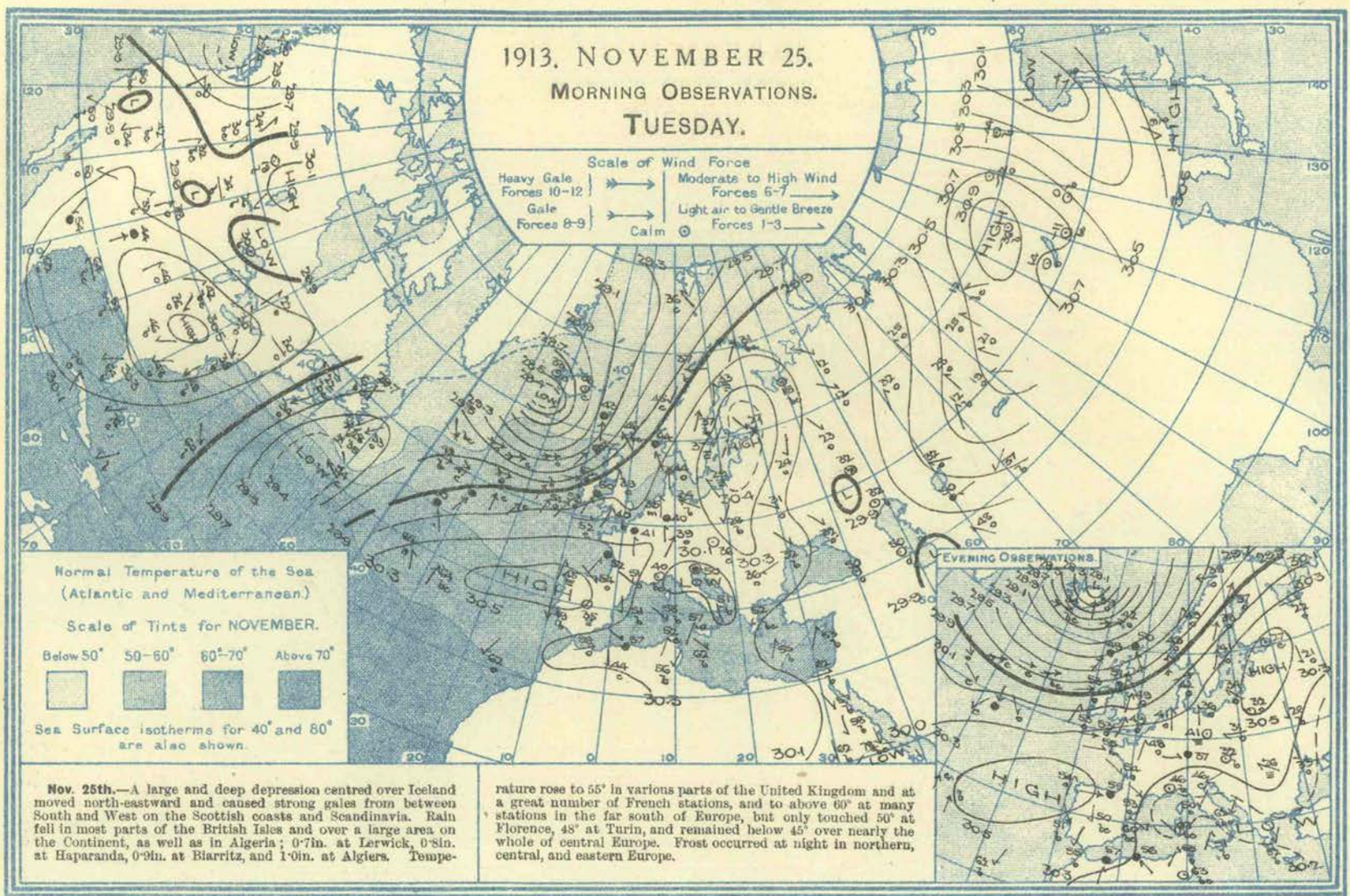


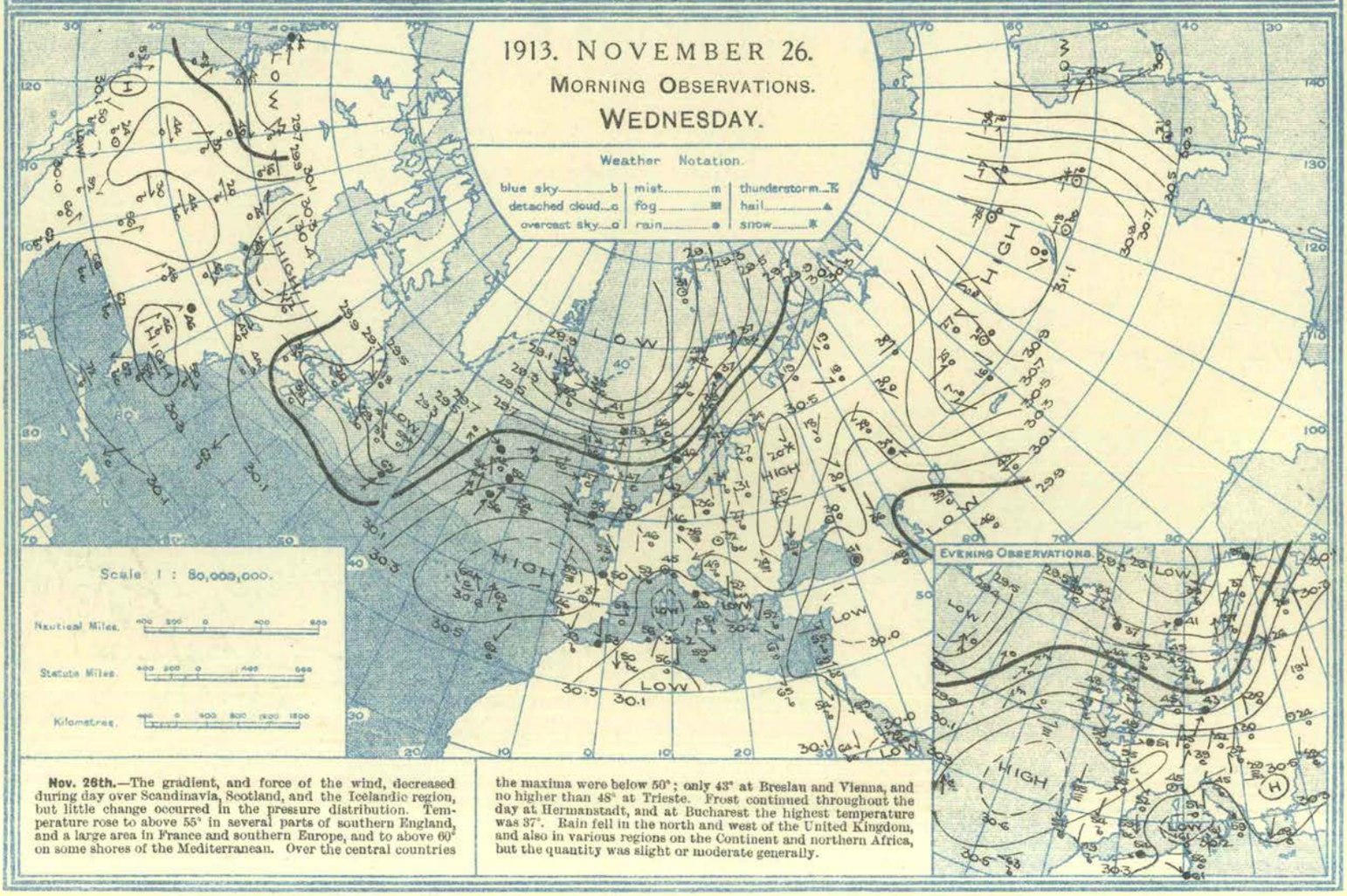
Nov. 23rd.—A secondary disturbance appeared in the west of these Islands during day, and gales were experienced on the western and northern coasts generally. More than 1·6in. of rain fell at Blacksod Point, and a considerable quantity in the west and north of these Islands generally. Heavy rain was experienced in the north of Italy and the adjacent part of France; 1·4in. at Turin, 1·3in. at Gap, and 0·9in. at Nice and Monaco. Elsewhere there was little or none. Over the United Kingdom the thermometer rose to about 50°, after a frost in several districts during the early morning, and similar maxima were general in the north and west of France. In the far south of Europe readings of 60° and above were common. Frost continued throughout the day in the north of the Continent, and occurred at night over a very large area.



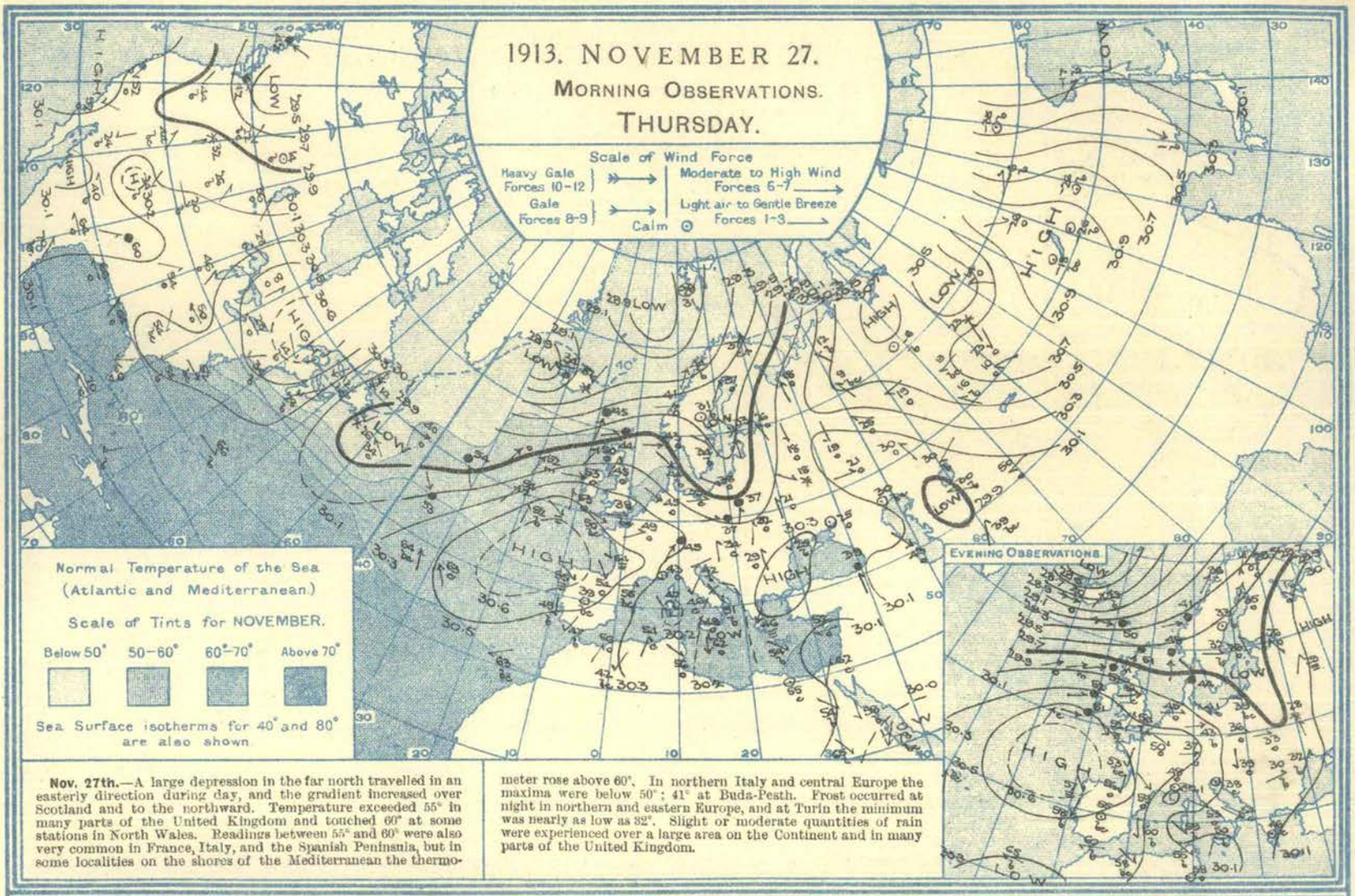
Nov. 24th.—Little modification occurred in the general distribution of pressure. Maximum temperature readings of about 50° were recorded in these Islands and a large portion of France, but in the central countries the value was lower; 39° at Vienna, 41° at Cassel, and 43° at Buda-Pesth. On a few shores of the Mediterranean the thermometer touched or slightly exceeded 70°, but at Nice only rose to 50°. Frost occurred at night over a large area in central and northern Europe, as well as in the south of Russia. Rain fell in most parts of the United Kingdom, France, Switzerland, and Italy, and also on the coast of Algeria, the largest measurements being 1·0in. at Besançon and Leghorn. In Spain 0·2in. fell at San Fernando and 0·9in. at Bilbao.



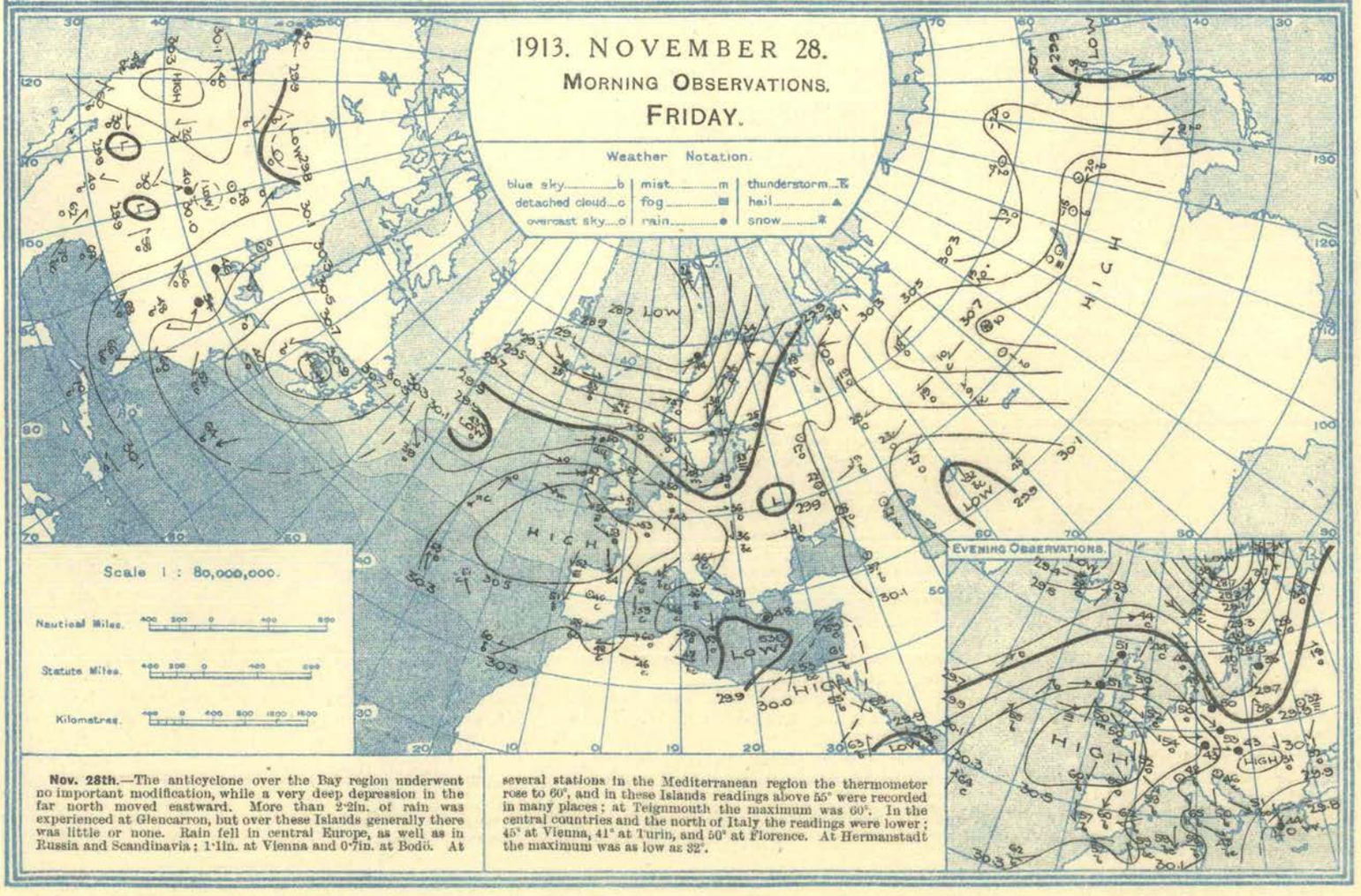
Nov. 25th.—A large and deep depression centred over Iceland moved north-eastward and caused strong gales from between South and West on the Scottish coasts and Scandinavia. Rain fell in most parts of the British Isles and over a large area on the Continent, as well as in Algeria; 0·7in. at Lerwick, 0·8in. at Haparanda, 0·9in. at Biarritz, and 1·0in. at Algiers. Temperature rose to 55° in various parts of the United Kingdom and at a great number of French stations, and to above 60° at many stations in the far south of Europe, but only touched 50° at Florence, 48° at Turin, and remained below 45° over nearly the whole of central Europe. Frost occurred at night in northern, central, and eastern Europe.



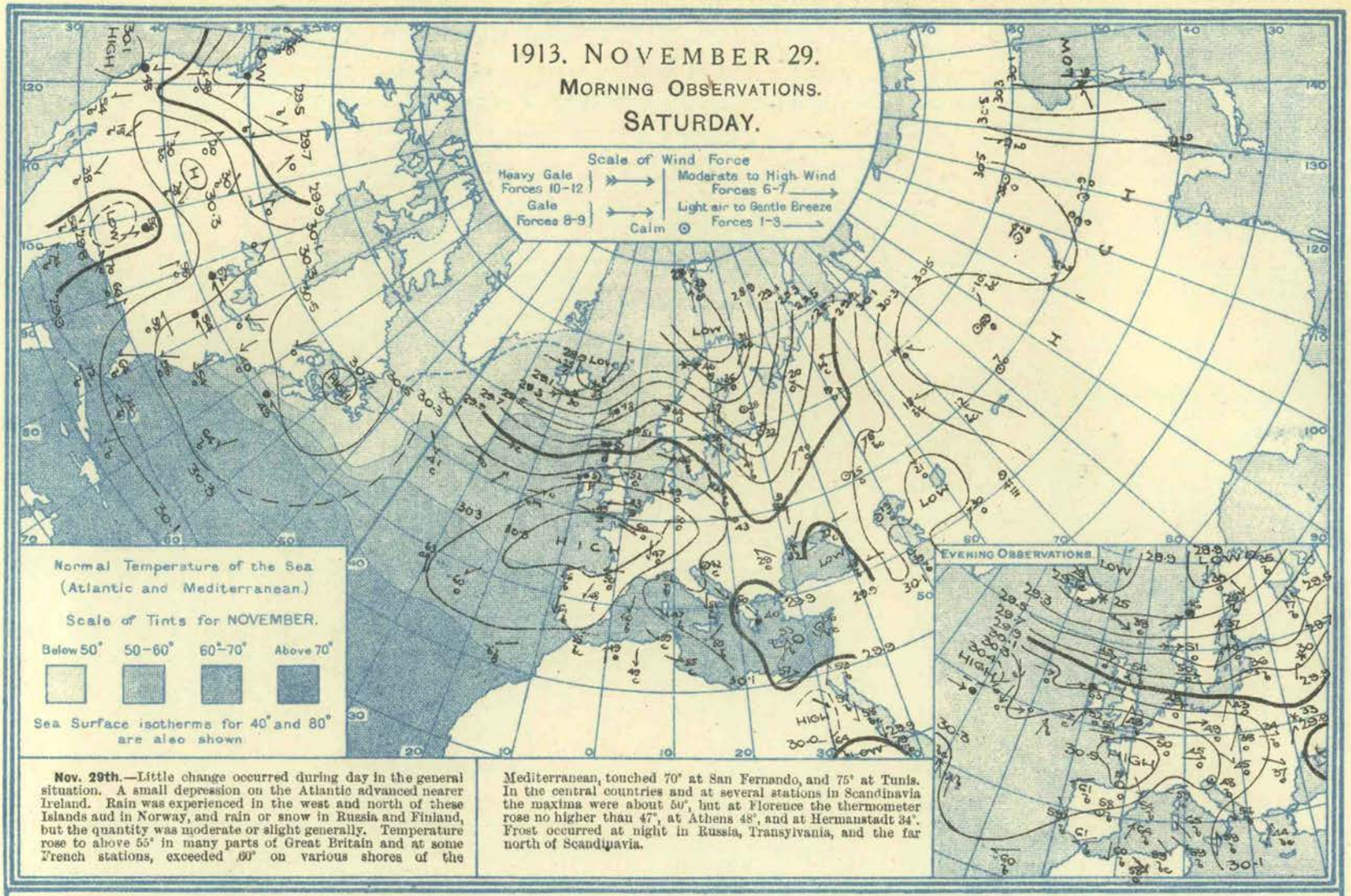
Nov. 26th.—The gradient, and force of the wind, decreased during day over Scandinavia, Scotland, and the Icelandic region, but little change occurred in the pressure distribution. Temperature rose to above 55° in several parts of southern England, and a large area in France and southern Europe, and to above 60° on some shores of the Mediterranean. Over the central countries the maxima were below 50°; only 43° at Breslau and Vienna, and no higher than 48° at Trieste. Frost continued throughout the day at Hermanstadt, and at Bucharest the highest temperature was 37°. Rain fell in the north and west of the United Kingdom, and also in various regions on the Continent and northern Africa, but the quantity was slight or moderate generally.



Nov. 27th.—A large depression in the far north travelled in an easterly direction during day, and the gradient increased over Scotland and to the northward. Temperature exceeded 55° in many parts of the United Kingdom and touched 60° at some stations in North Wales. Readings between 55° and 60° were also very common in France, Italy, and the Spanish Peninsula, but in some localities on the shores of the Mediterranean the thermometer rose above 60°. In northern Italy and central Europe the maxima were below 50°; 41° at Buda-Pesth. Frost occurred at night in northern and eastern Europe, and at Turin the minimum was nearly as low as 32°. Slight or moderate quantities of rain were experienced over a large area on the Continent and in many parts of the United Kingdom.

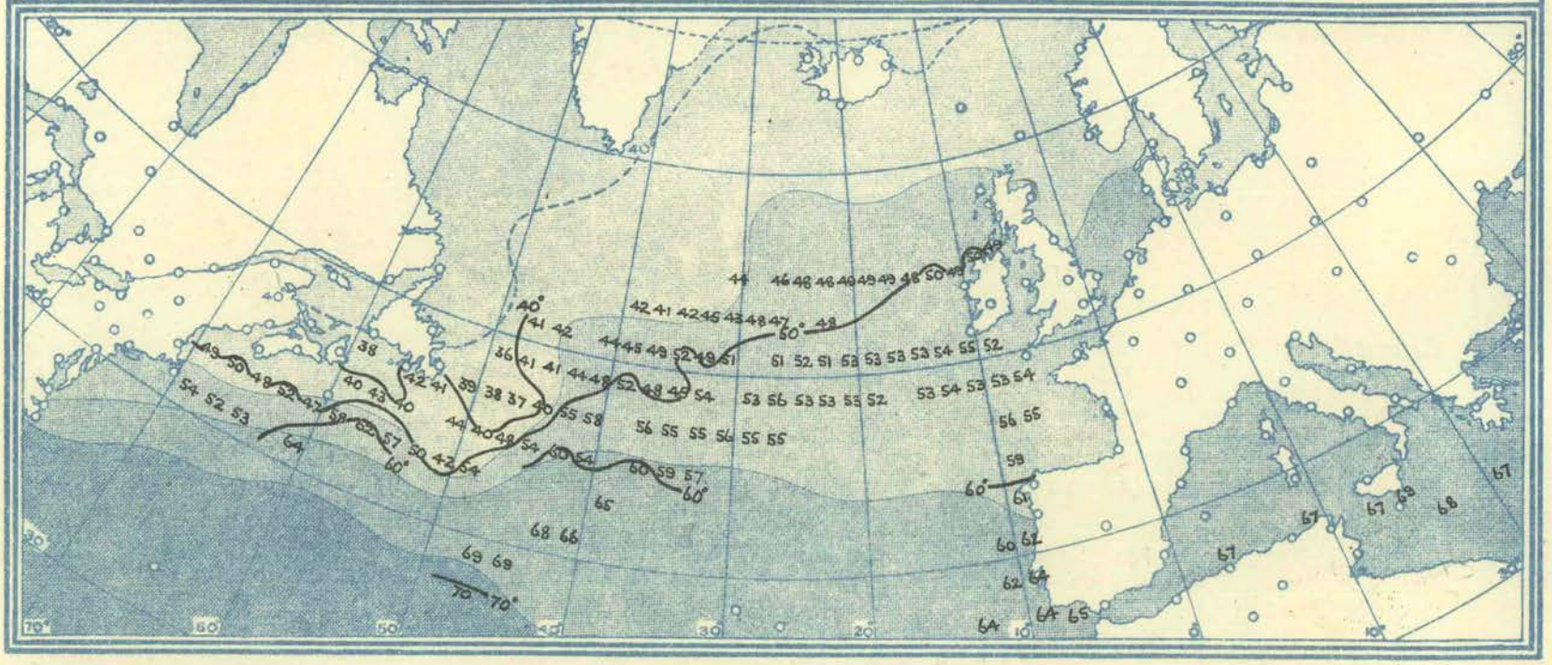


Nov. 28th.—The anticyclone over the Bay region underwent no important modification, while a very deep depression in the far north moved eastward. More than 2·2in. of rain was experienced at Glencarron, but over these Islands generally there was little or none. Rain fell in central Europe, as well as in Russia and Scandinavia; 1·1in. at Vienna and 0·7in. at Bodö. At several stations in the Mediterranean region the thermometer rose to 60°, and in these Islands readings above 55° were recorded in many places; at Teignmouth the maximum was 60°. In the central countries and the north of Italy the readings were lower; 45° at Vienna, 41° at Turin, and 50° at Florence. At Hermanstadt the maximum was as low as 32°.



Nov. 29th.—Little change occurred during day in the general situation. A small depression on the Atlantic advanced nearer Ireland. Rain was experienced in the west and north of these Islands and in Norway, and rain or snow in Russia and Finland, but the quantity was moderate or slight generally. Temperature rose to above 55° in many parts of Great Britain and at some French stations, exceeded 60° on various shores of the Mediterranean, touched 70° at San Fernando, and 75° at Tunis. In the central countries and at several stations in Scandinavia the maxima were about 50°, but at Florence the thermometer rose no higher than 47°, at Athens 48°, and at Hermanstadt 34°. Frost occurred at night in Russia, Transylvania, and the far north of Scandinavia.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 29TH NOVEMBER, 1913.



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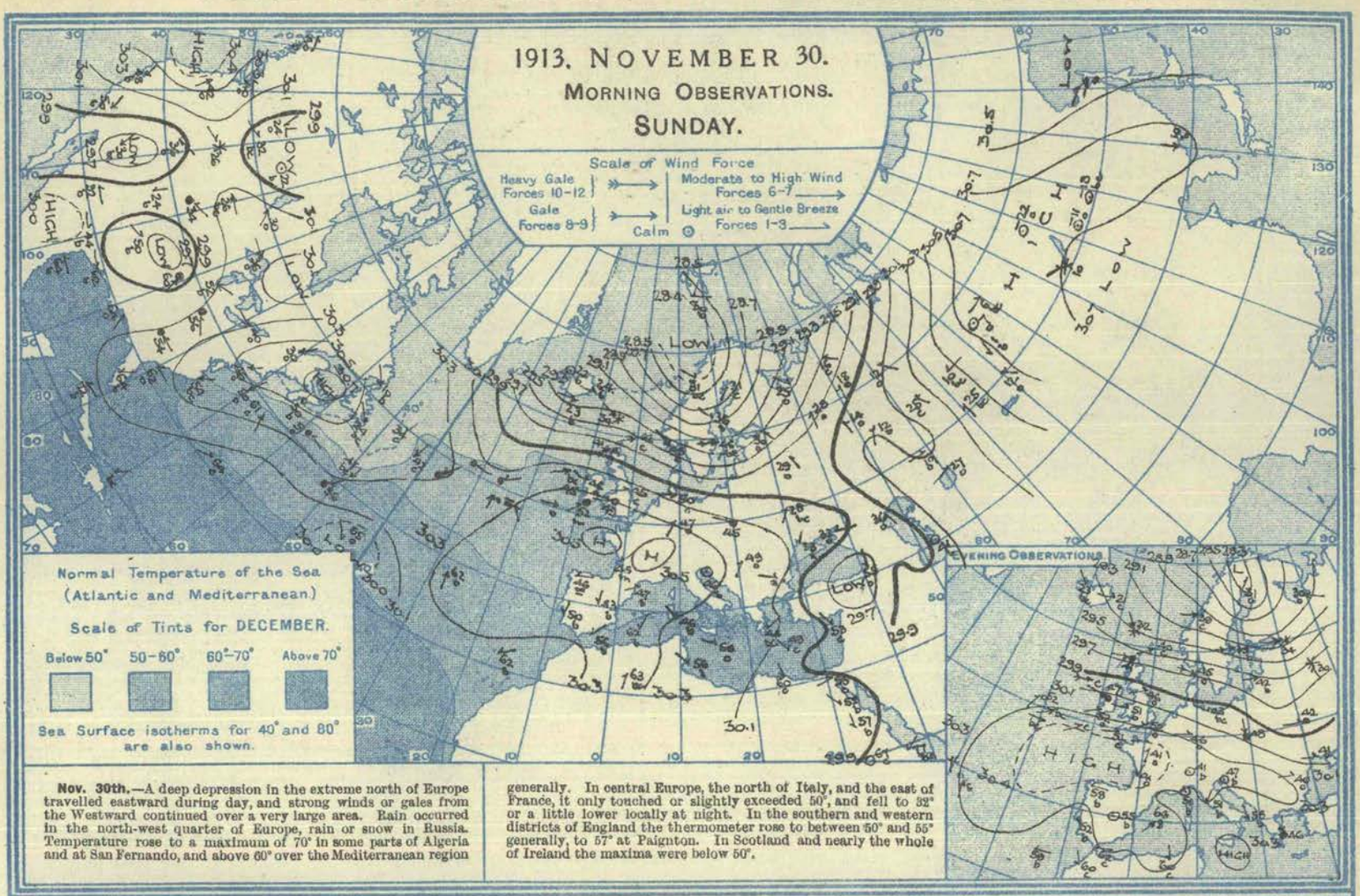
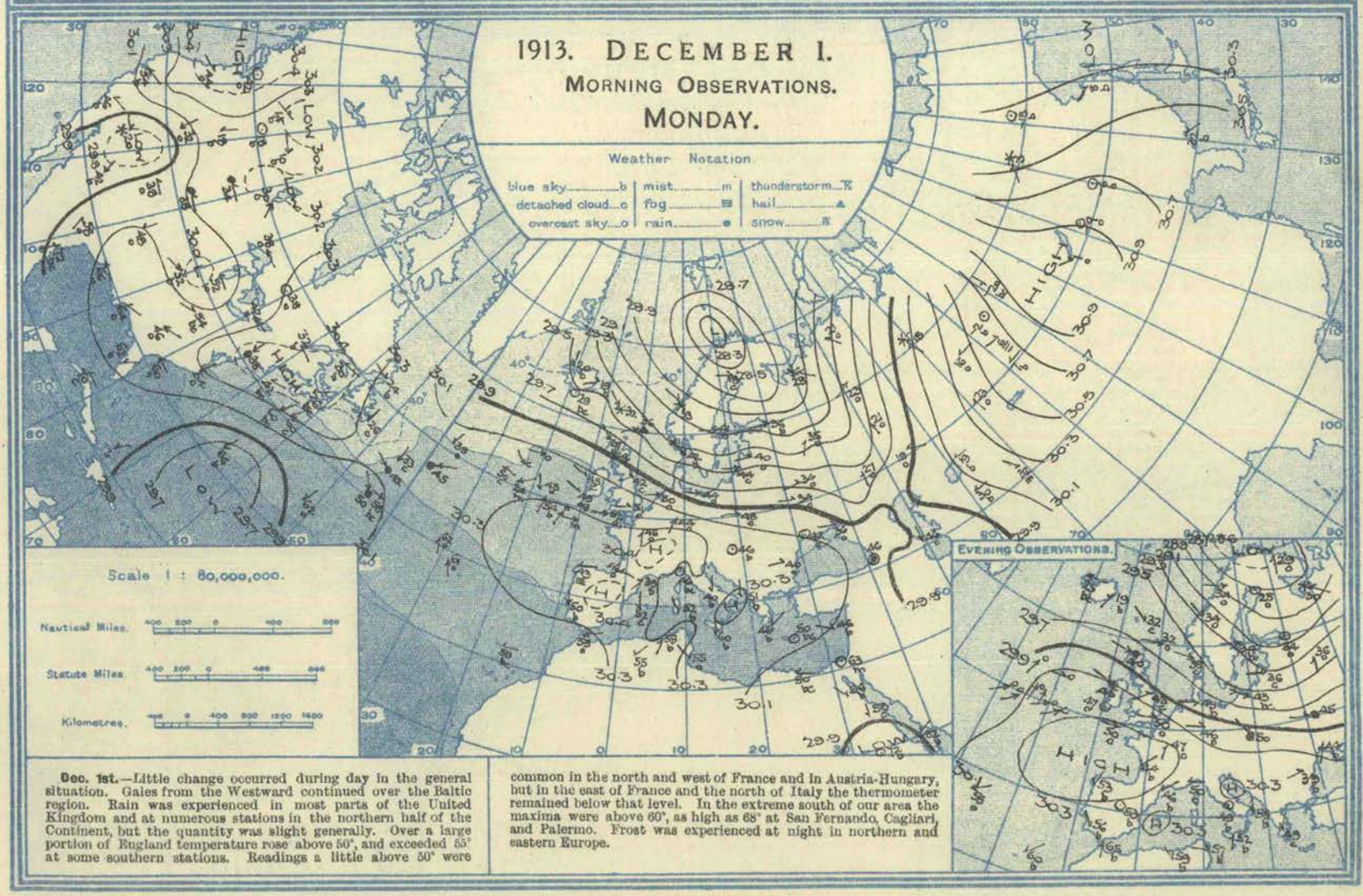
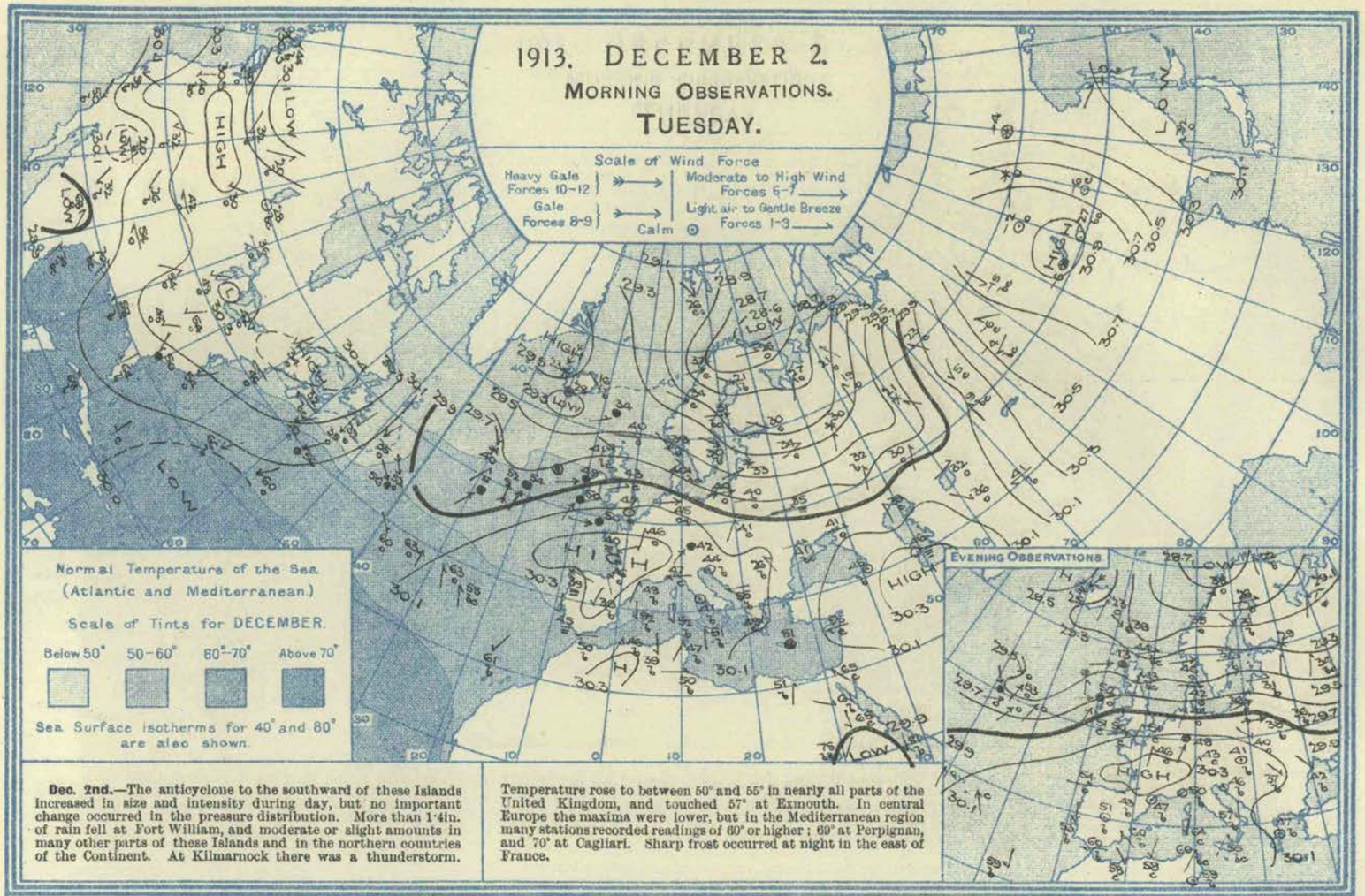


Nov. 30th.—A deep depression in the extreme north of Europe travelled eastward during day, and strong winds or gales from the Westward continued over a very large area. Rain occurred in the north-west quarter of Europe, rain or snow in Russia. Temperature rose to a maximum of 70° in some parts of Algeria and at San Fernando, and above 60° over the Mediterranean region generally. In central Europe, the north of Italy, and the east of France, it only touched or slightly exceeded 50°, and fell to 32° or a little lower locally at night. In the southern and western districts of England the thermometer rose to between 50° and 55° generally, to 57° at Paignton. In Scotland and nearly the whole of Ireland the maxima were below 50°.

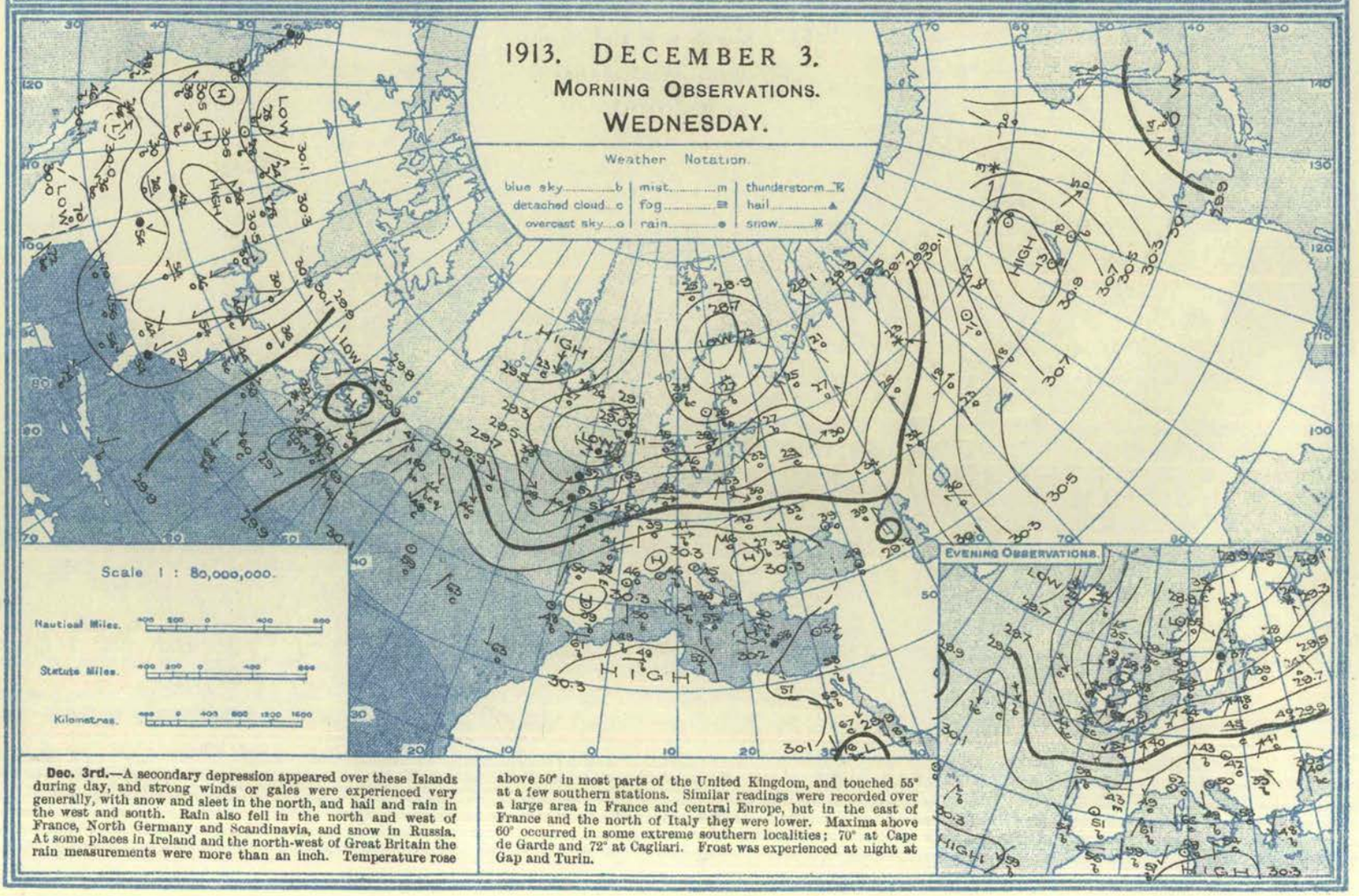


Dec. 1st.—Little change occurred during day in the general situation. Gales from the Westward continued over the Baltic region. Rain was experienced in most parts of the United Kingdom and at numerous stations in the northern half of the Continent, but the quantity was slight generally. Over a large portion of England temperature rose above 50°, and exceeded 55° at some southern stations. Readings a little above 50° were common in the north and west of France and in Austria-Hungary, but in the east of France and the north of Italy the thermometer remained below that level. In the extreme south of our area the maxima were above 60°, as high as 68° at San Fernando, Cagliari, and Palermo. Frost was experienced at night in northern and eastern Europe.

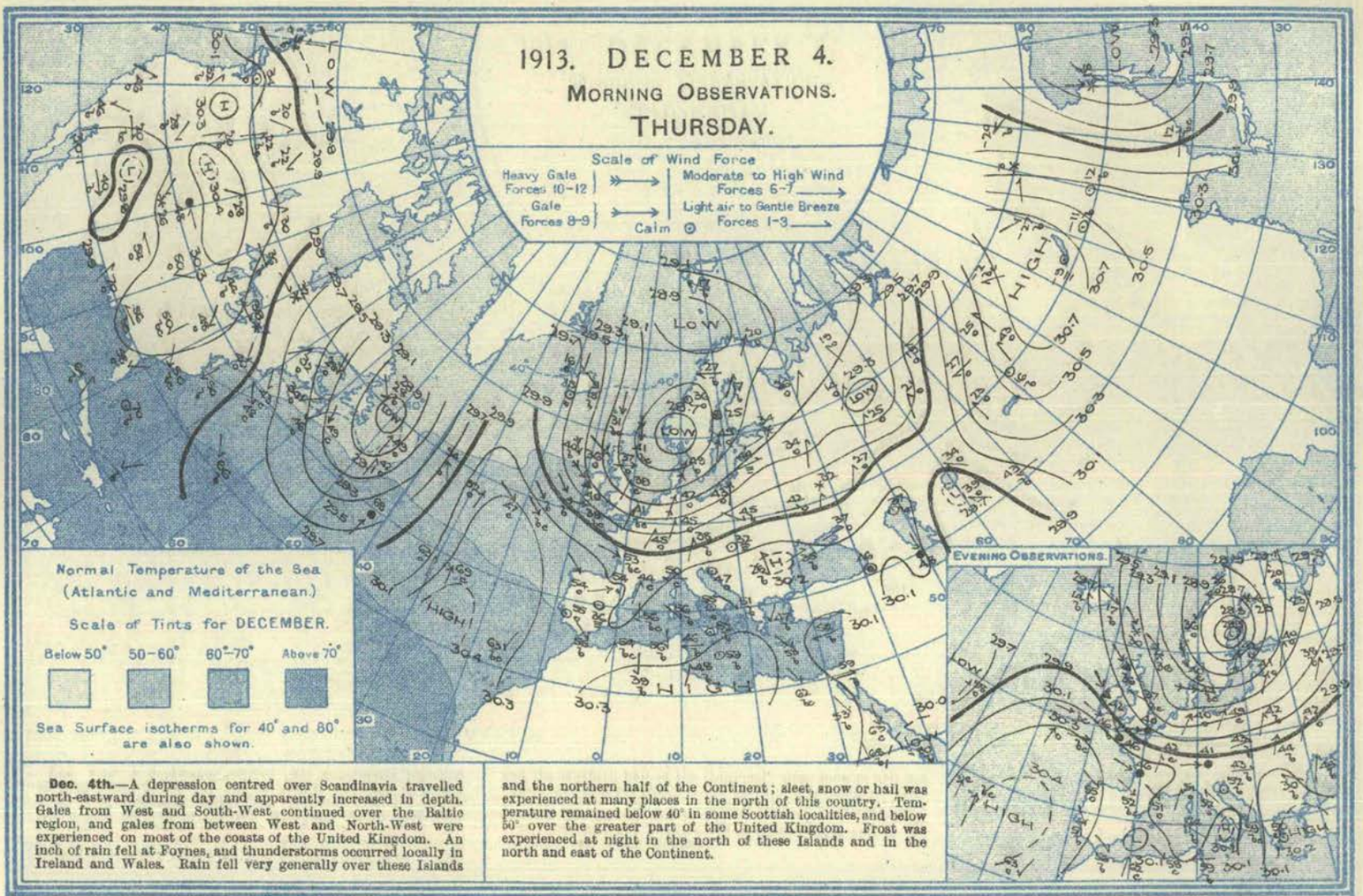


Dec. 2nd.—The anticyclone to the southward of these Islands increased in size and intensity during day, but no important change occurred in the pressure distribution. More than 1·4in. of rain fell at Fort William, and moderate or slight amounts in many other parts of these Islands and in the northern countries of the Continent. At Kilmarnock there was a thunderstorm.

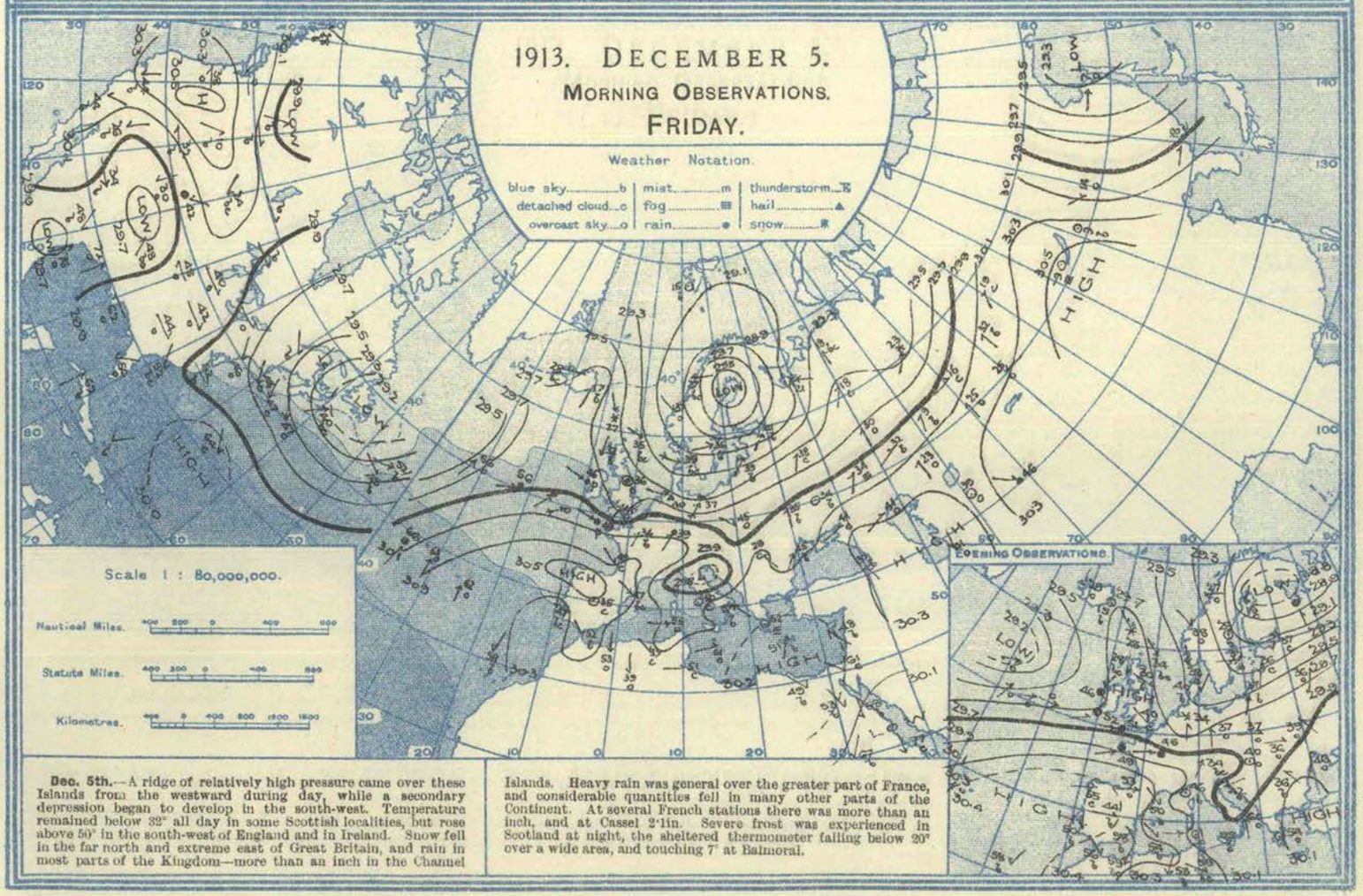
Temperature rose to between 50° and 55° in nearly all parts of the United Kingdom, and touched 57° at Exmouth. In central Europe the maxima were lower, but in the Mediterranean region many stations recorded readings of 60° or higher; 69° at Perpignan, and 70° at Cagliari. Sharp frost occurred at night in the east of France.



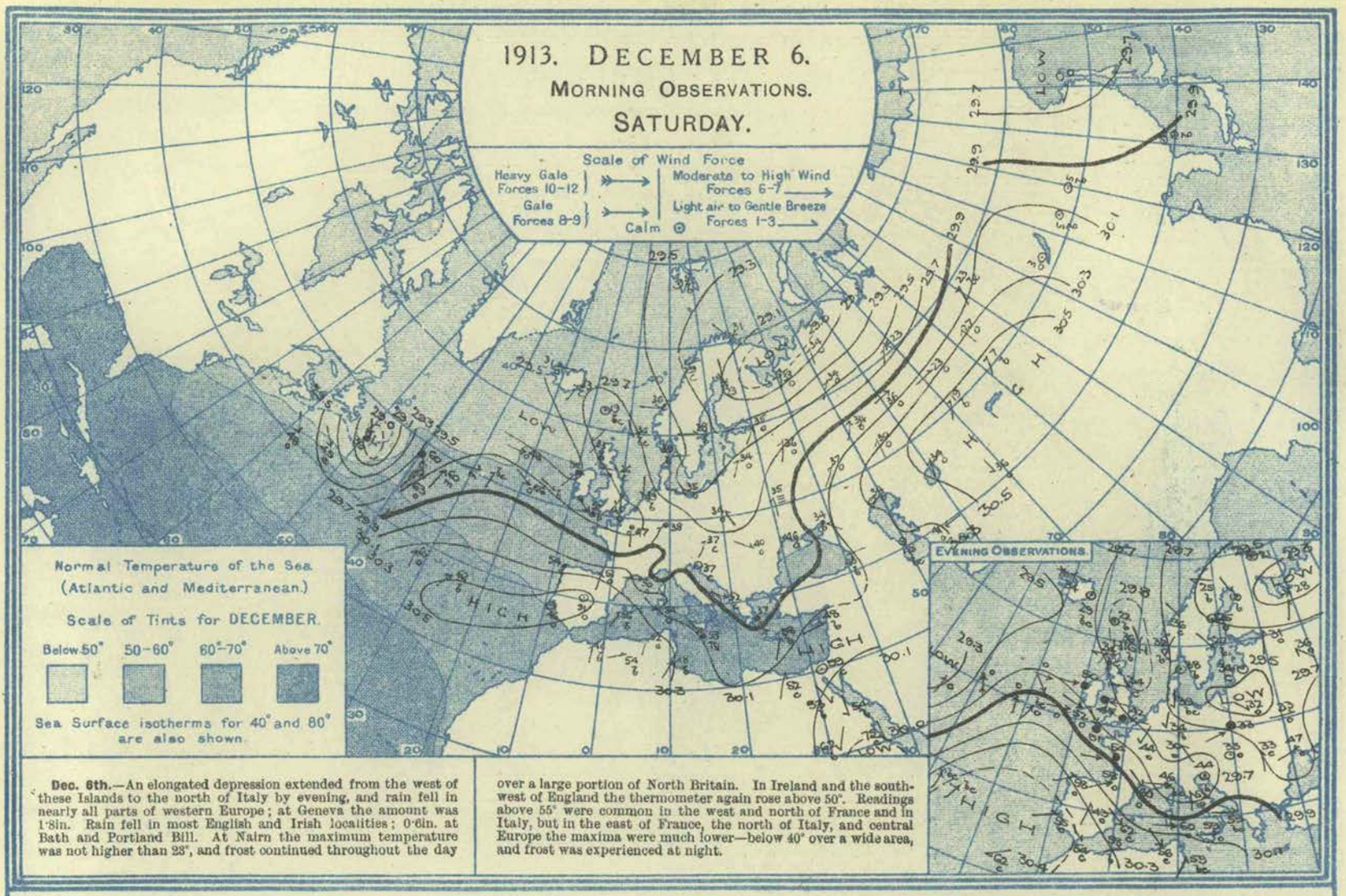
Dec. 3rd.—A secondary depression appeared over these Islands during day, and strong winds or gales were experienced very generally, with snow and sleet in the north, and hail and rain in the west and south. Rain also fell in the north and west of France, North Germany and Scandinavia, and snow in Russia. At some places in Ireland and the north-west of Great Britain the rain measurements were more than an inch. Temperature rose above 50° in most parts of the United Kingdom, and touched 55° at a few southern stations. Similar readings were recorded over a large area in France and central Europe, but in the east of France and the north of Italy they were lower. Maxima above 60° occurred in some extreme southern localities; 70° at Cape de Gards and 72° at Cagliari. Frost was experienced at night at Gap and Turin.



Dec. 4th.—A depression centred over Scandinavia travelled north-eastward during day and apparently increased in depth. Gales from West and South-West continued over the Baltic region, and gales from between West and North-West were experienced on most of the coasts of the United Kingdom. An inch of rain fell at Foynes, and thunderstorms occurred locally in Ireland and Wales. Rain fell very generally over these Islands and the northern half of the Continent; sleet, snow or hail was experienced at many places in the north of this country. Temperature remained below 40° in some Scottish localities, and below 50° over the greater part of the United Kingdom. Frost was experienced at night in the north of these Islands and in the north and east of the Continent.

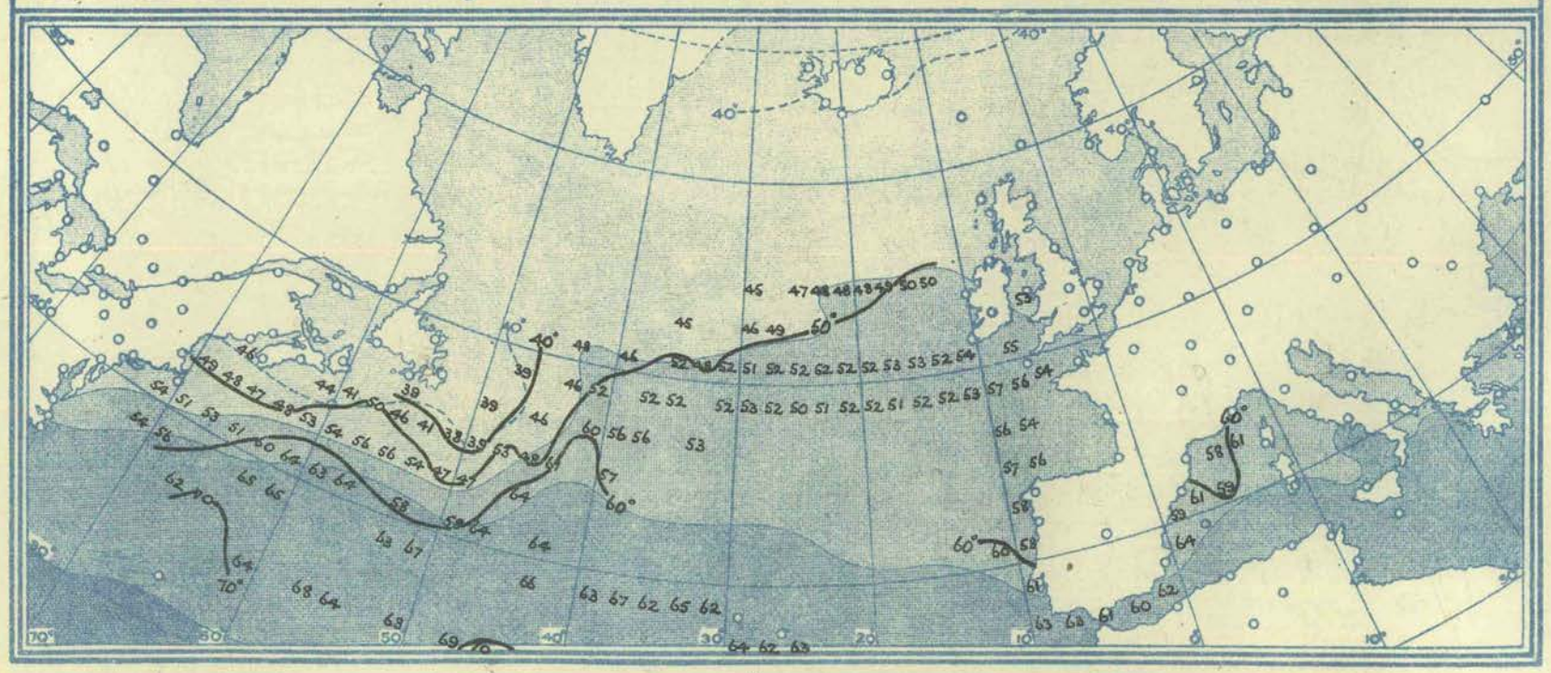


Dec. 5th.—A ridge of relatively high pressure came over these Islands from the westward during day, while a secondary depression began to develop in the south-west. Temperature remained below 32° all day in some Scottish localities, but rose above 50° in the south-west of England and in Ireland. Snow fell in the far north and extreme east of Great Britain, and rain in most parts of the Kingdom—more than an inch in the Channel Islands. Heavy rain was general over the greater part of France, and considerable quantities fell in many other parts of the Continent. At several French stations there was more than an inch, and at Cassel 2·1in. Severe frost was experienced in Scotland at night, the sheltered thermometer falling below 20° over a wide area, and touching 7° at Balmoral.



Dec. 6th.—An elongated depression extended from the west of these Islands to the north of Italy by evening, and rain fell in nearly all parts of western Europe; at Geneva the amount was 1·8in. Rain fell in most English and Irish localities; 0·6in. at Bath and Portland Bill. At Nairn the maximum temperature was not higher than 23°, and frost continued throughout the day over a large portion of North Britain. In Ireland and the south-west of England the thermometer again rose above 50°. Readings above 55° were common in the west and north of France and in Italy, but in the east of France, the north of Italy, and central Europe the maxima were much lower—below 40° over a wide area, and frost was experienced at night.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 6TH DECEMBER, 1913.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows which are drawn flying with the wind. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Spitzbergen, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Egypt; at 5.25 a.m. in Greece; at 8.37 a.m. in Portugal; and at 8 a.m. in Spain and in the Azores. These times refer to Greenwich Mean Time.

Observations in Austria-Hungary and the Russian Empire, including Siberia, are taken at 7 a.m. local time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

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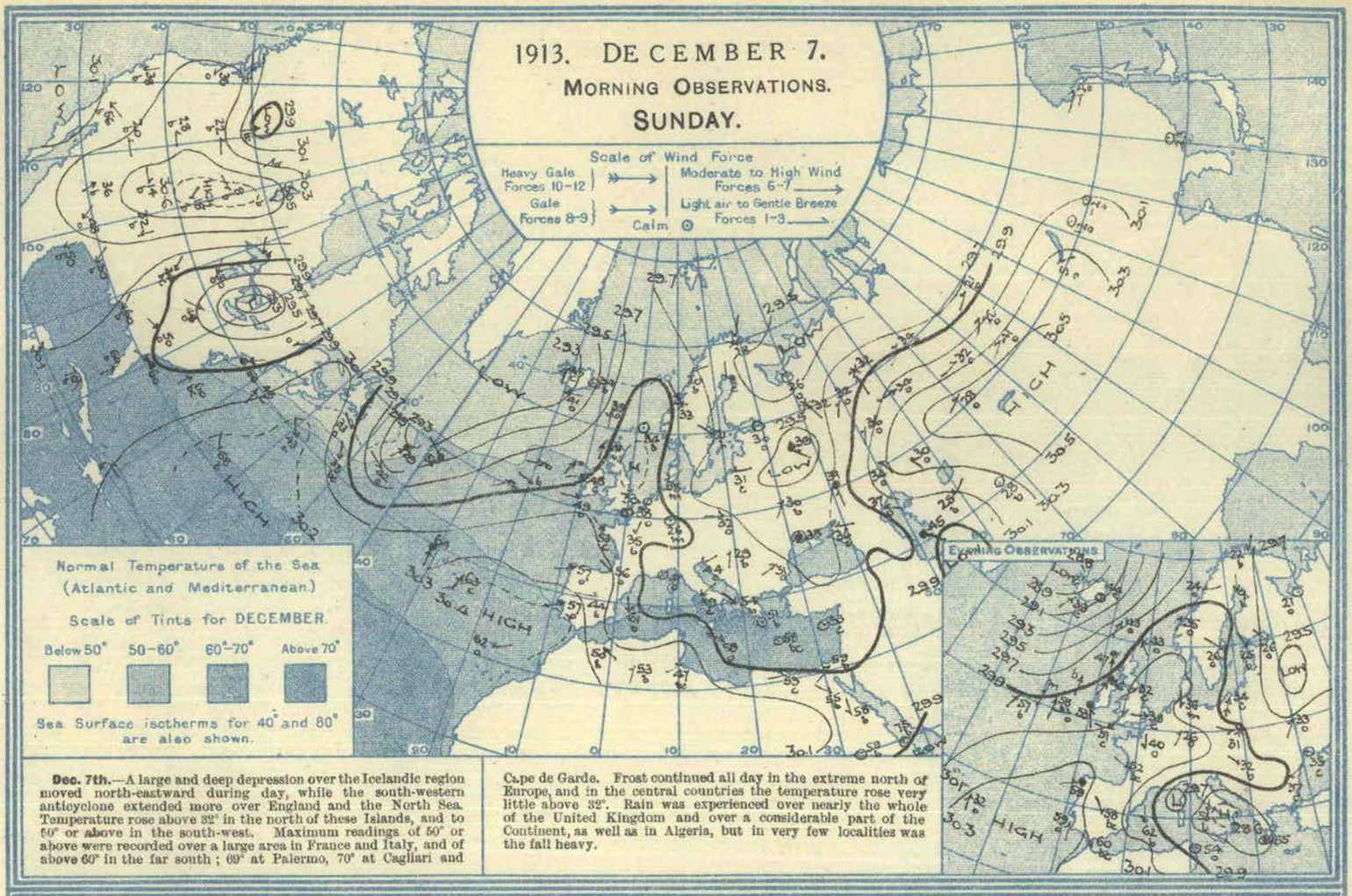
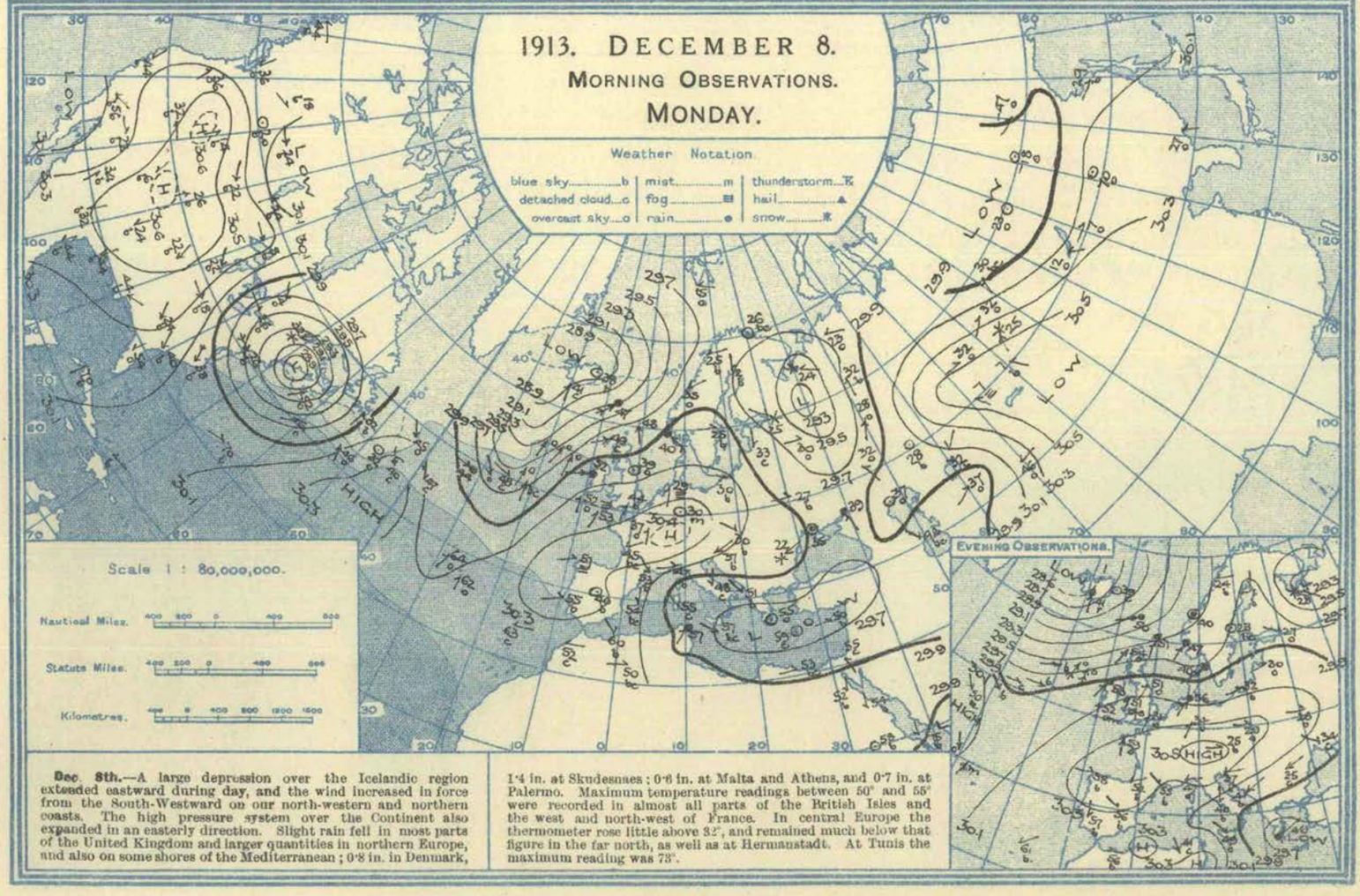
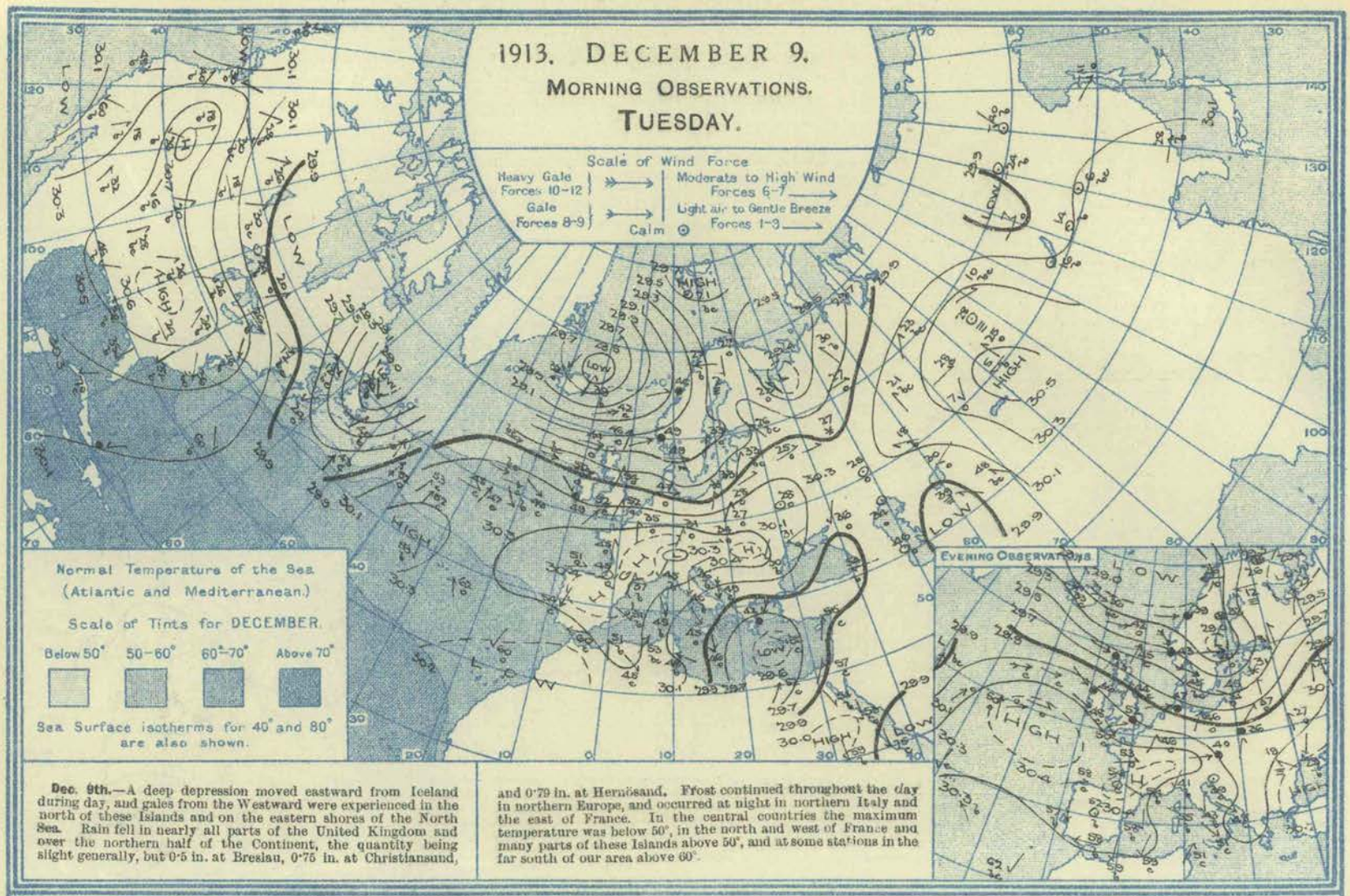
Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherms for 40° and 80° are shown by blue lines. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.



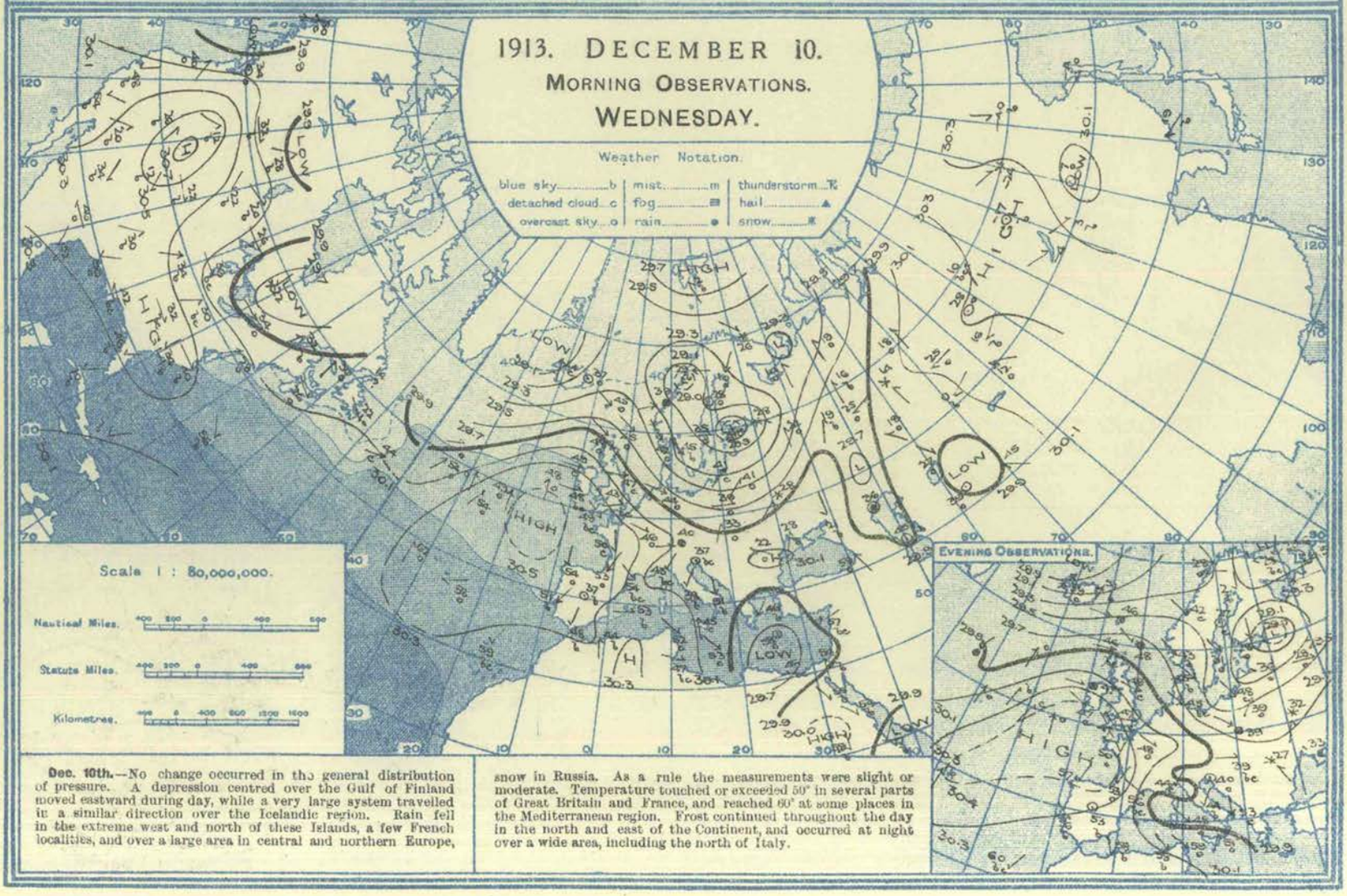
Dec. 7th.—A large and deep depression over the Icelandic region moved north-eastward during day, while the south-western anticyclone extended more over England and the North Sea. Temperature rose above 32° in the north of these Islands, and to 50° or above in the south-west. Maximum readings of 50° or above were recorded over a large area in France and Italy, and of above 60° in the far south; 69° at Palermo, 70° at Cagliari and Cape de Garde. Frost continued all day in the extreme north of Europe, and in the central countries the temperature rose very little above 32°. Rain was experienced over nearly the whole of the United Kingdom and over a considerable part of the Continent, as well as in Algeria, but in very few localities was the fall heavy.



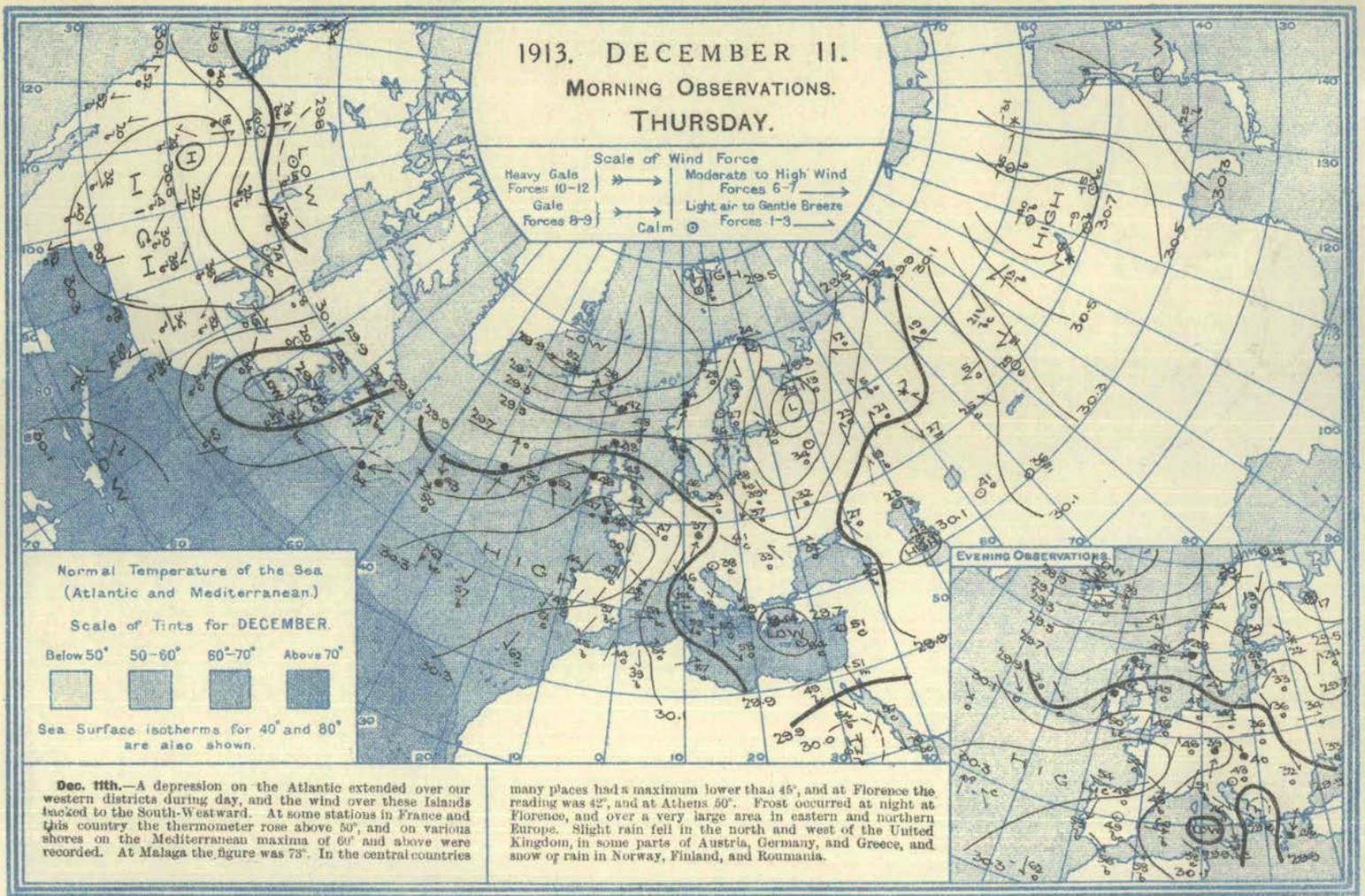
Dec. 8th.—A large depression over the Icelandic region extended eastward during day, and the wind increased in force from the South-Westward on our north-western and northern coasts. The high pressure system over the Continent also expanded in an easterly direction. Slight rain fell in most parts of the United Kingdom and larger quantities in northern Europe, and also on some shores of the Mediterranean; 0·8 in. in Denmark, 1·4 in. at Skudesnaes; 0·6 in. at Malta and Athens, and 0·7 in. at Palermo. Maximum temperature readings between 50° and 55° were recorded in almost all parts of the British Isles and the west and north-west of France. In central Europe the thermometer rose little above 32°, and remained much below that figure in the far north, as well as at Hermanstadt. At Tunis the maximum reading was 73°.



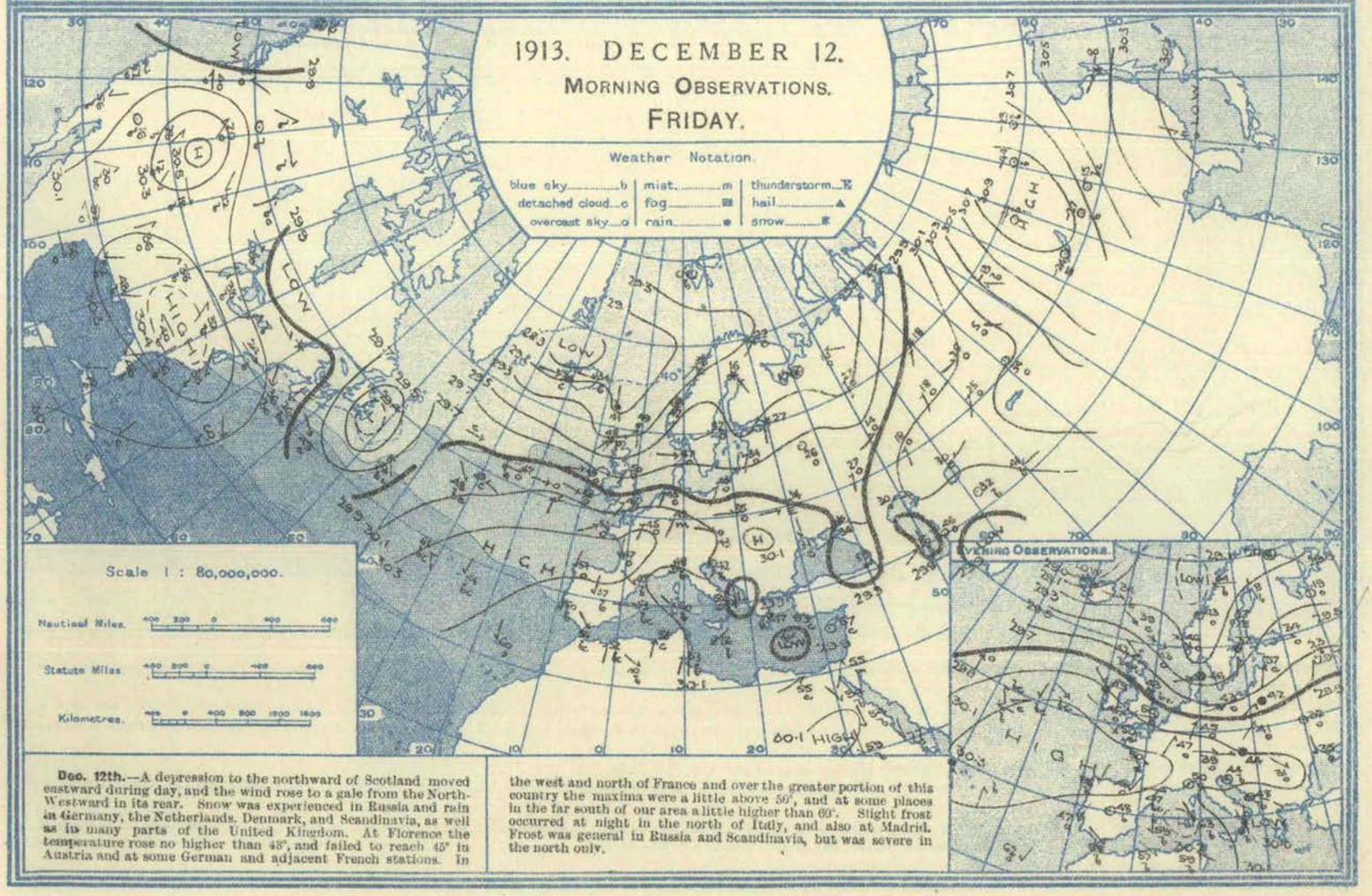
Dec. 9th.—A deep depression moved eastward from Iceland during day, and gales from the Westward were experienced in the north of these Islands and on the eastern shores of the North Sea. Rain fell in nearly all parts of the United Kingdom and over the northern half of the Continent, the quantity being slight generally, but 0·5 in. at Breslau, 0·75 in. at Christiansund, and 0·79 in. at Hernösand. Frost continued throughout the day in northern Europe, and occurred at night in northern Italy and the east of France. In the central countries the maximum temperature was below 50°, in the north and west of France and many parts of these Islands above 50°, and at some stations in the far south of our area above 60°.



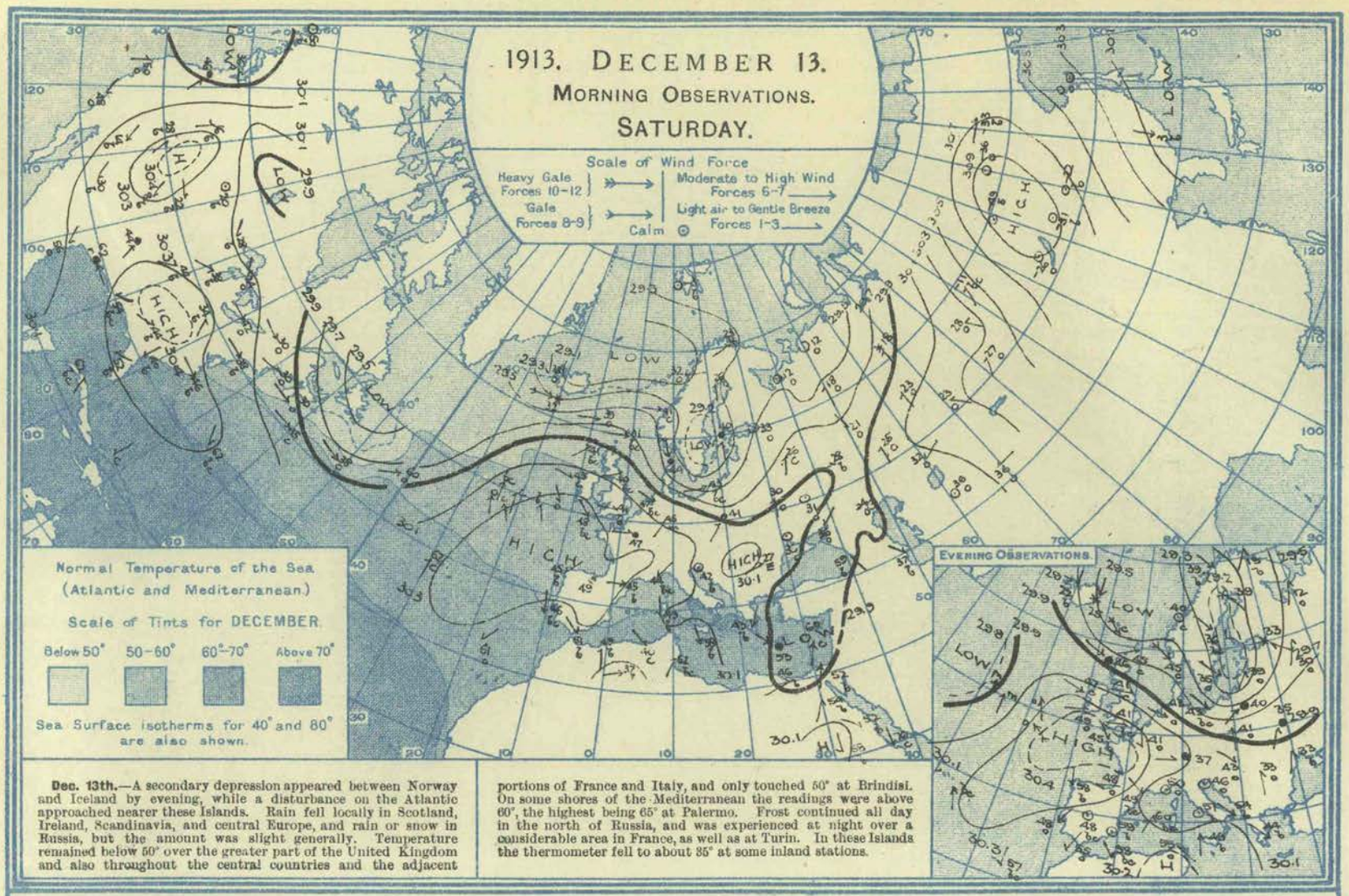
Dec. 10th.—No change occurred in the general distribution of pressure. A depression centred over the Gulf of Finland moved eastward during day, while a very large system travelled in a similar direction over the Icelandic region. Rain fell in the extreme west and north of these Islands, a few French localities, and over a large area in central and northern Europe, snow in Russia. As a rule the measurements were slight or moderate. Temperature touched or exceeded 59° in several parts of Great Britain and France, and reached 60° at some places in the Mediterranean region. Frost continued throughout the day in the north and east of the Continent, and occurred at night over a wide area, including the north of Italy.



Dec. 11th.—A depression on the Atlantic extended over our western districts during day, and the wind over these Islands backed to the South-Westward. At some stations in France and this country the thermometer rose above 50°, and on various shores on the Mediterranean maxima of 60° and above were recorded. At Malaga the figure was 73°. In the central countries many places had a maximum lower than 45°, and at Florence the reading was 42°, and at Athens 50°. Frost occurred at night at Florence, and over a very large area in eastern and northern Europe. Slight rain fell in the north and west of the United Kingdom, in some parts of Austria, Germany, and Greece, and snow or rain in Norway, Finland, and Roumania.

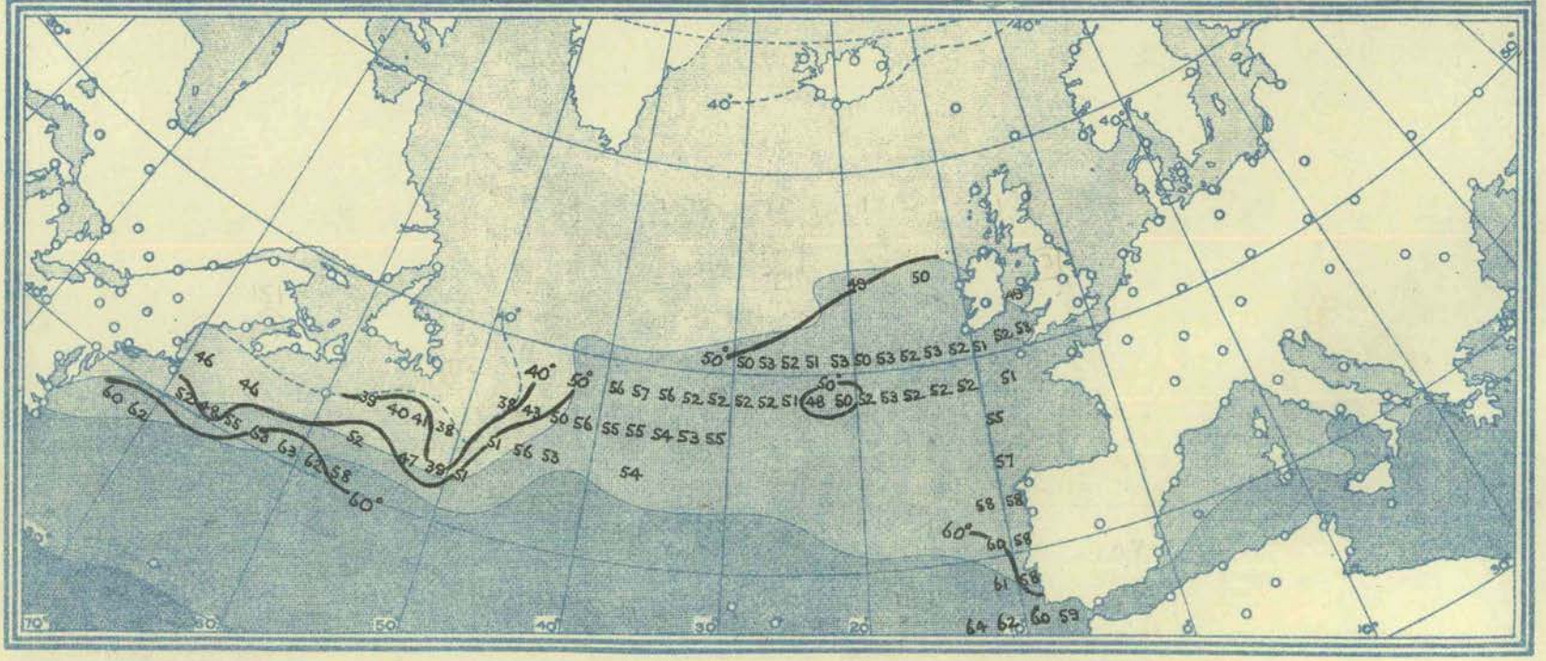


Dec. 12th.—A depression to the northward of Scotland moved eastward during day, and the wind rose to a gale from the North-Westward in its rear. Snow was experienced in Russia and rain in Germany, the Netherlands, Denmark, and Scandinavia, as well as in many parts of the United Kingdom. At Florence the temperature rose no higher than 43°, and failed to reach 45° in Austria and at some German and adjacent French stations. In the west and north of France and over the greater portion of this country the maxima were a little above 50°, and at some places in the far south of our area a little higher than 60°. Slight frost occurred at night in the north of Italy, and also at Madrid. Frost was general in Russia and Scandinavia, but was severe in the north only.



Dec. 13th.—A secondary depression appeared between Norway and Iceland by evening, while a disturbance on the Atlantic approached nearer these Islands. Rain fell locally in Scotland, Ireland, Scandinavia, and central Europe, and rain or snow in Russia, but the amount was slight generally. Temperature remained below 50° over the greater part of the United Kingdom and also throughout the central countries and the adjacent portions of France and Italy, and only touched 50° at Brindisi. On some shores of the Mediterranean the readings were above 60°, the highest being 65° at Palermo. Frost continued all day in the north of Russia, and was experienced at night over a considerable area in France, as well as at Turin. In these Islands the thermometer fell to about 35° at some inland stations.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 13TH DECEMBER, 1913.



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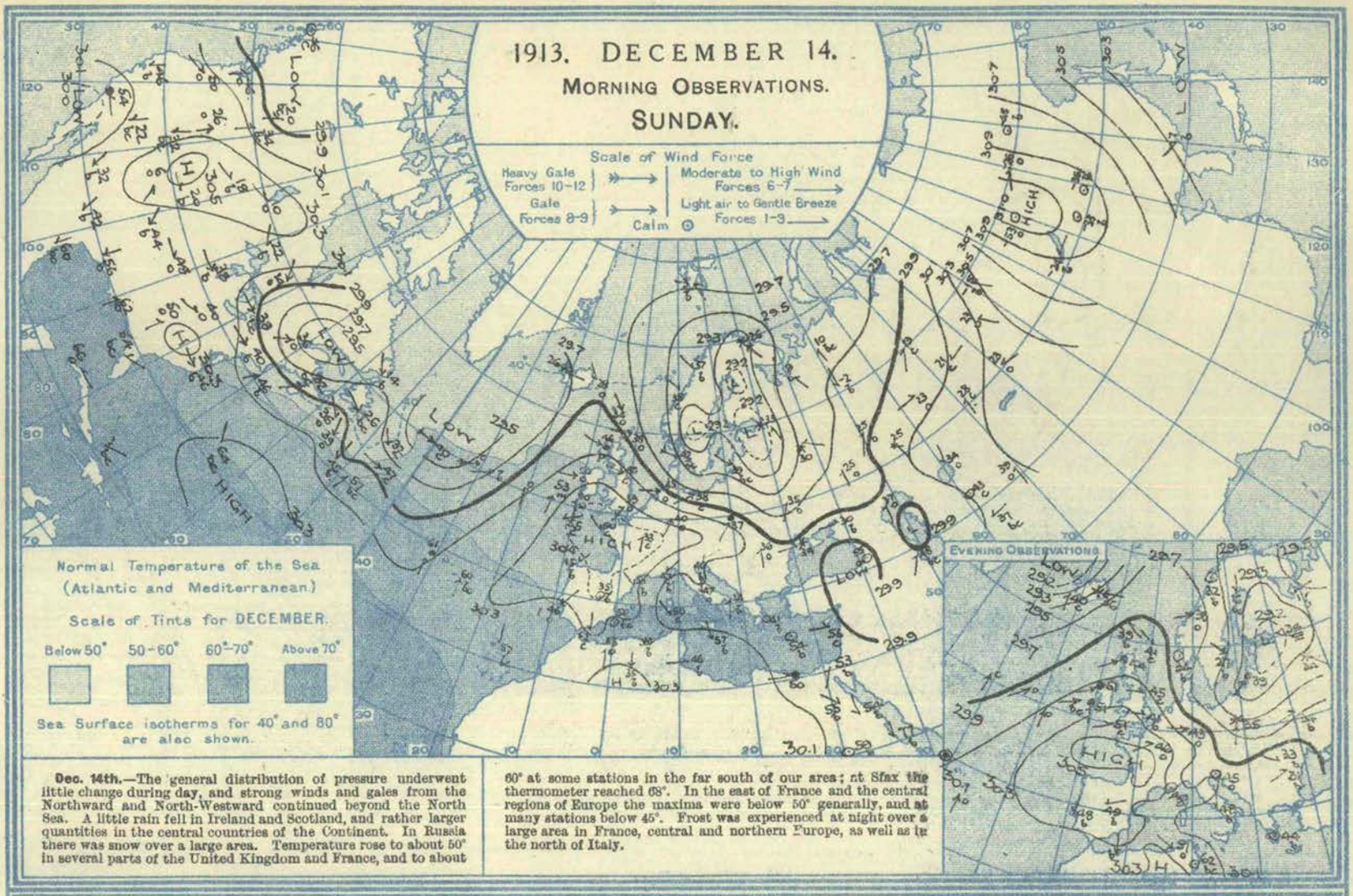
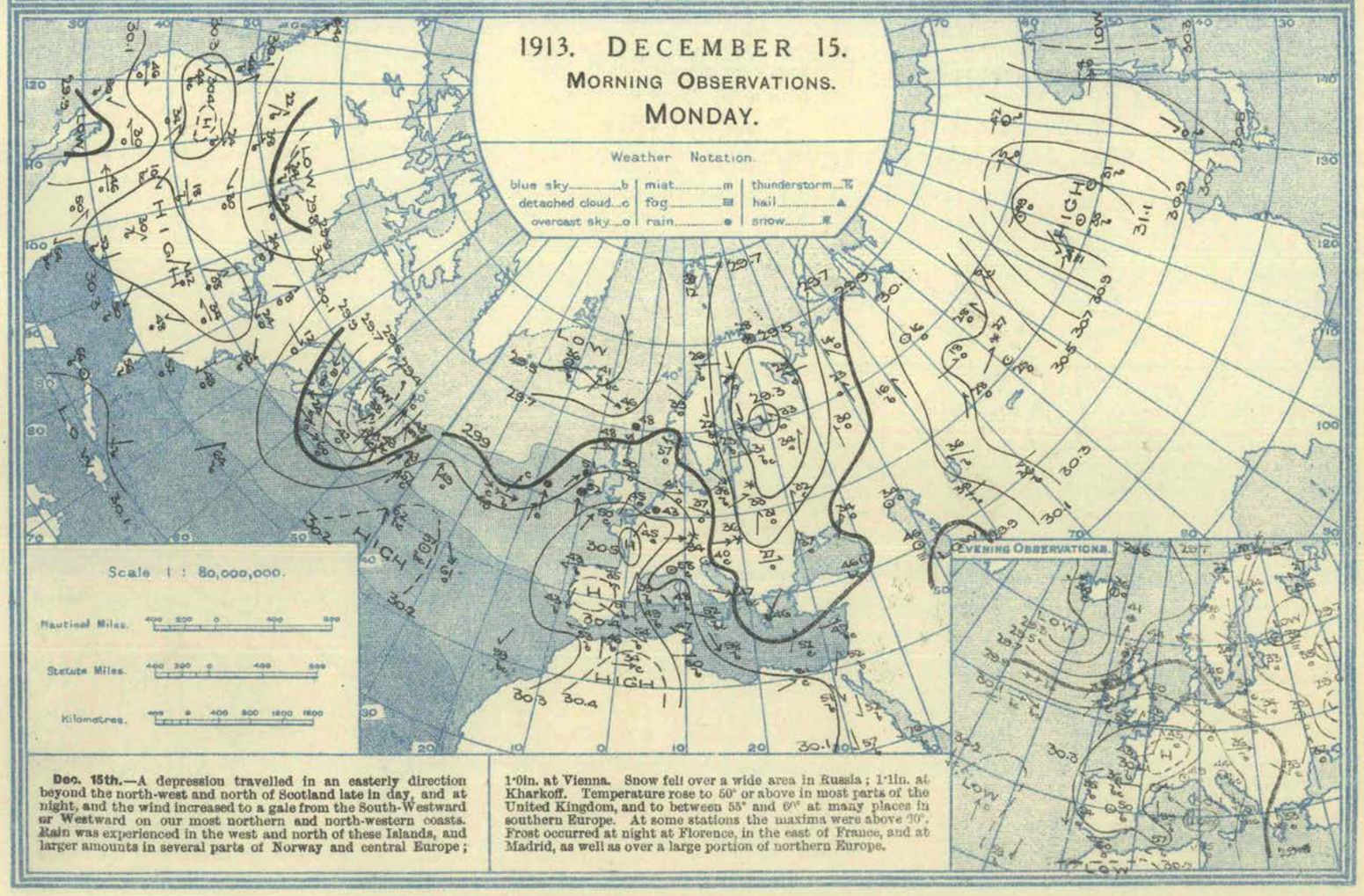
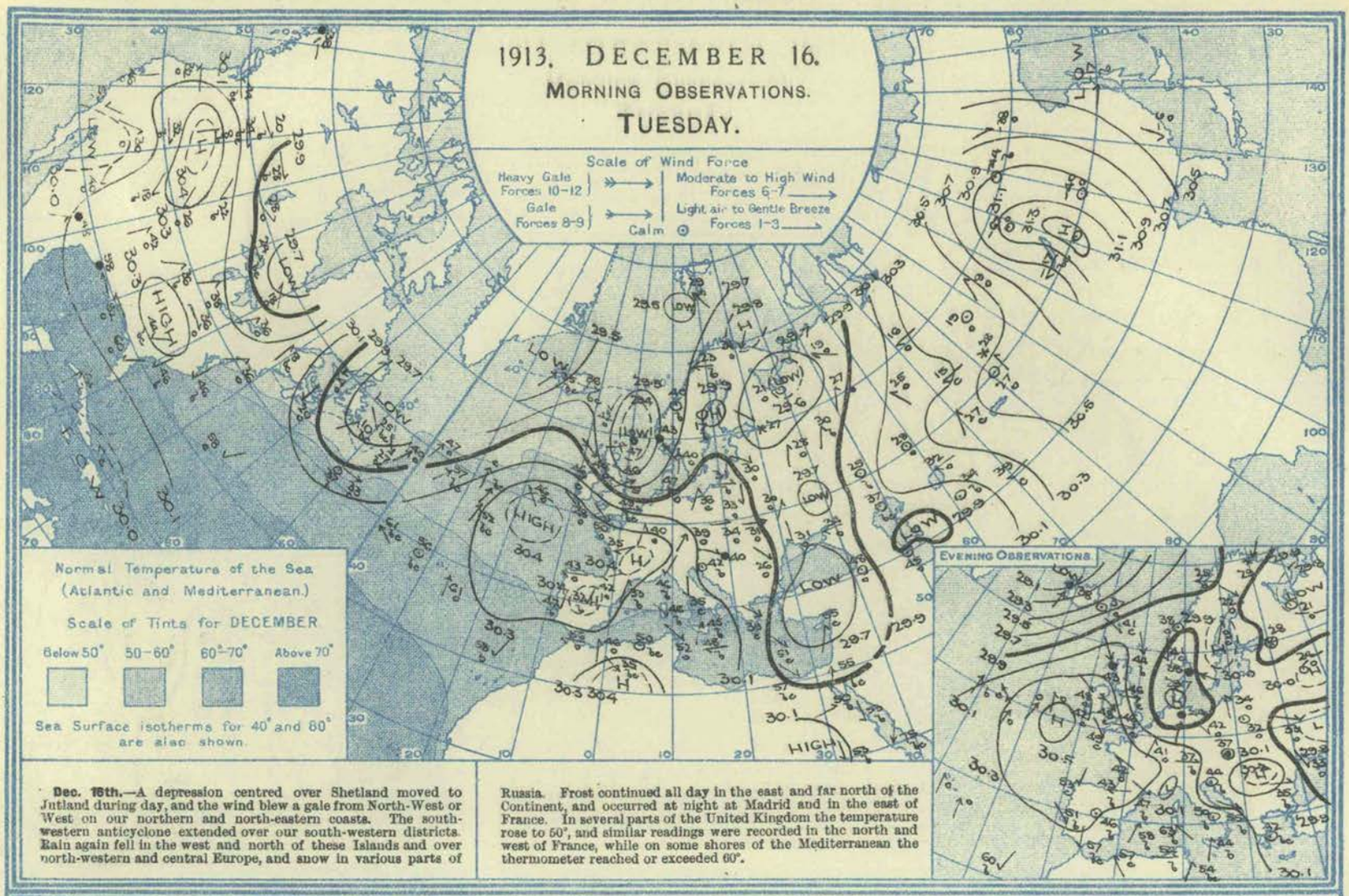


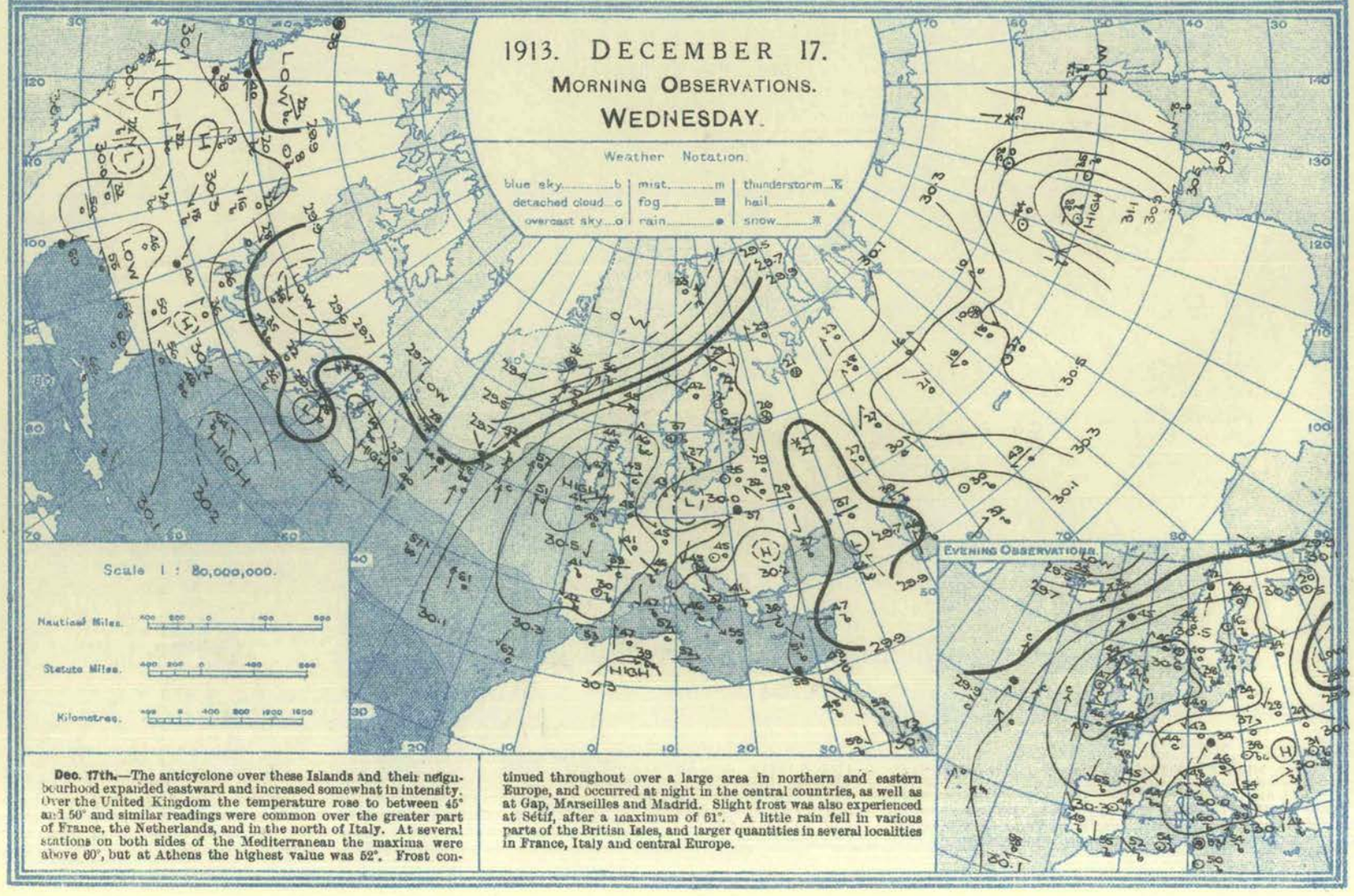
Dec. 14th.—The general distribution of pressure underwent little change during day, and strong winds and gales from the Northward and North-Westward continued beyond the North Sea. A little rain fell in Ireland and Scotland, and rather larger quantities in the central countries of the Continent. In Russia there was snow over a large area. Temperature rose to about 50° in several parts of the United Kingdom and France, and to about 60° at some stations in the far south of our area; at Sfax the thermometer reached 68°. In the east of France and the central regions of Europe the maxima were below 50° generally, and at many stations below 45°. Frost was experienced at night over a large area in France, central and northern Europe, as well as in the north of Italy.



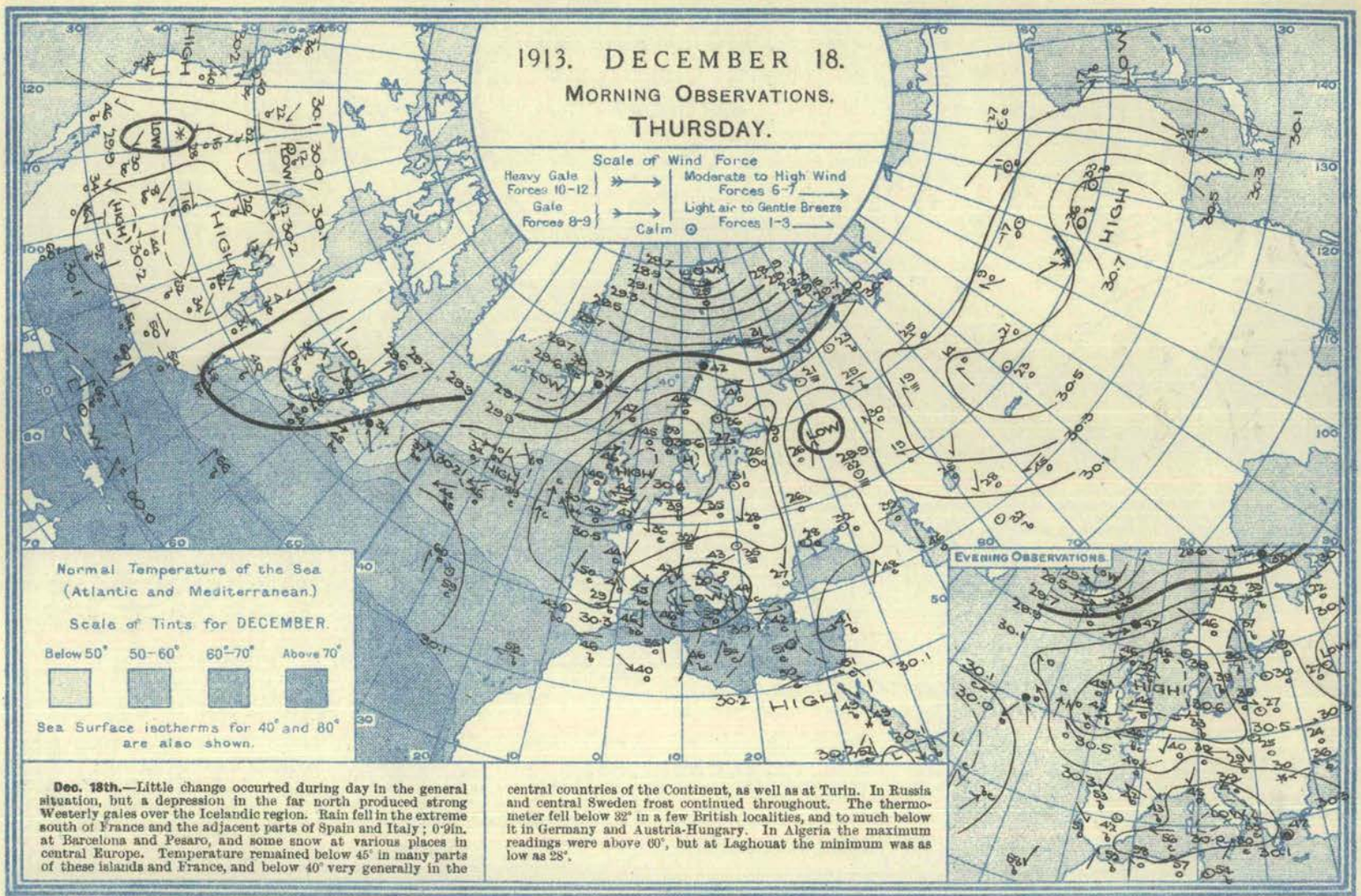
Dec. 15th.—A depression travelled in an easterly direction beyond the north-west and north of Scotland late in day, and at night, and the wind increased to a gale from the South-Westward or Westward on our most northern and north-western coasts. Rain was experienced in the west and north of these Islands, and larger amounts in several parts of Norway and central Europe; 1·0in. at Vienna. Snow fell over a wide area in Russia; 1·1in. at Kharkoff. Temperature rose to 50° or above in most parts of the United Kingdom, and to between 55° and 60° at many places in southern Europe. At some stations the maxima were above 70°. Frost occurred at night at Florence, in the east of France, and at Madrid, as well as over a large portion of northern Europe.



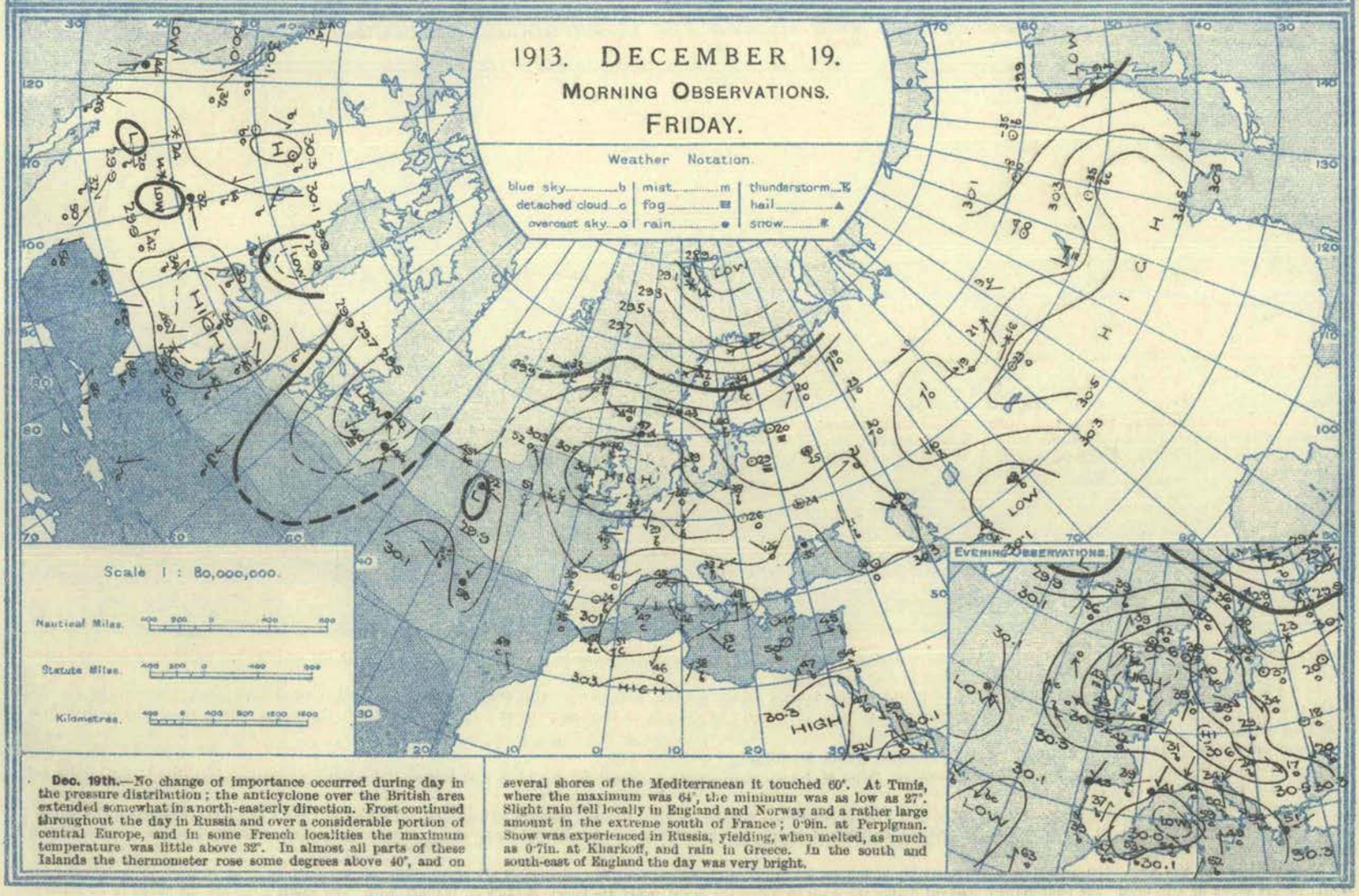
Dec. 16th.—A depression centred over Shetland moved to Jutland during day, and the wind blew a gale from North-West or West on our northern and north-eastern coasts. The south-western anticyclone extended over our south-western districts. Rain again fell in the west and north of these Islands and over north-western and central Europe, and snow in various parts of Russia. Frost continued all day in the east and far north of the Continent, and occurred at night at Madrid and in the east of France. In several parts of the United Kingdom the temperature rose to 50°, and similar readings were recorded in the north and west of France, while on some shores of the Mediterranean the thermometer reached or exceeded 60°.



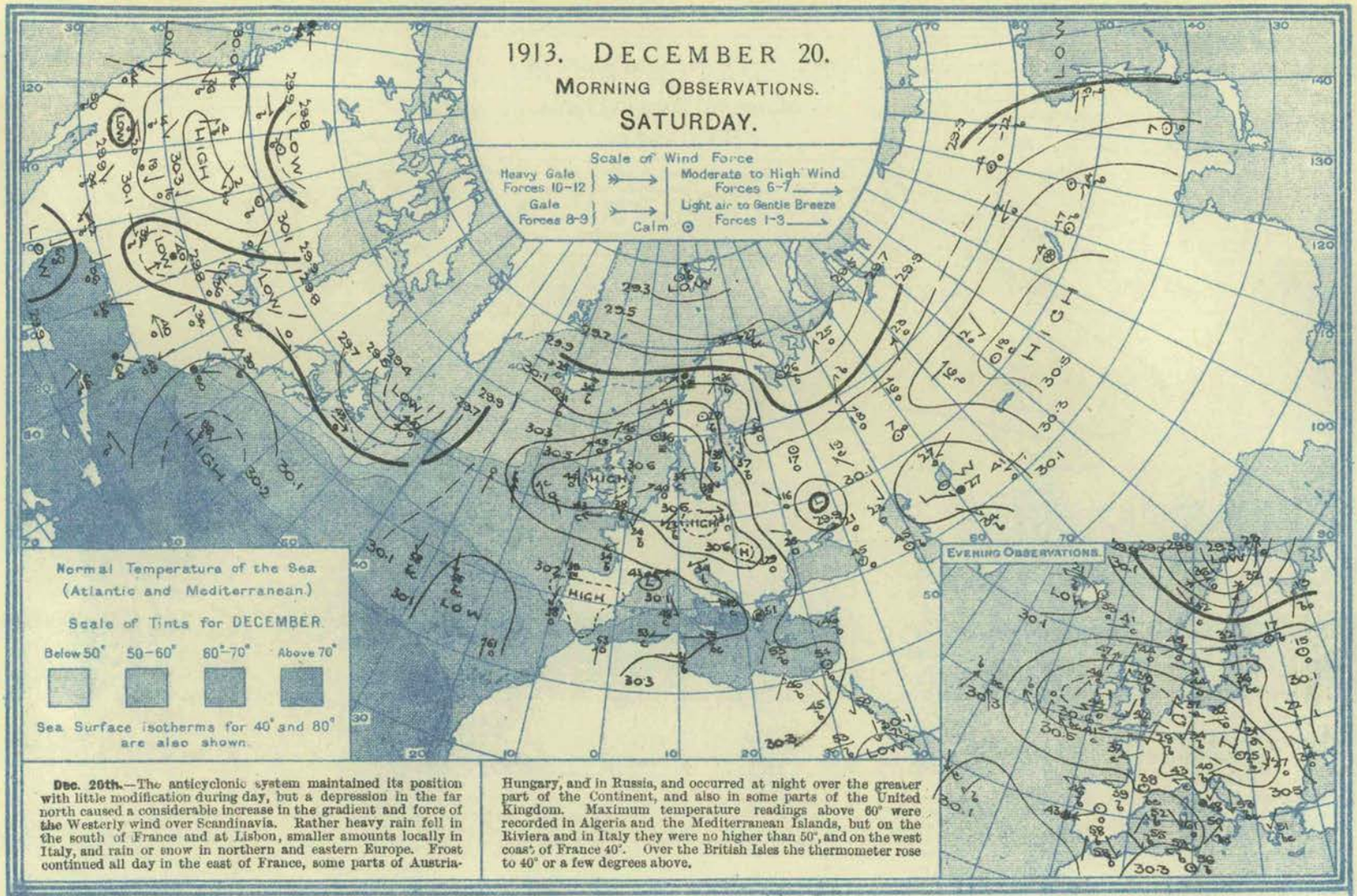
Dec. 17th.—The anticyclone over these Islands and their neighbourhood expanded eastward and increased somewhat in intensity. Over the United Kingdom the temperature rose to between 45° and 50° and similar readings were common over the greater part of France, the Netherlands, and in the north of Italy. At several stations on both sides of the Mediterranean the maxima were above 60°, but at Athens the highest value was 52°. Frost continued throughout over a large area in northern and eastern Europe, and occurred at night in the central countries, as well as at Gap, Marseilles and Madrid. Slight frost was also experienced at Sétif, after a maximum of 61°. A little rain fell in various parts of the British Isles, and larger quantities in several localities in France, Italy and central Europe.



Dec. 18th.—Little change occurred during day in the general situation, but a depression in the far north produced strong Westerly gales over the Icelandic region. Rain fell in the extreme south of France and the adjacent parts of Spain and Italy; 0·9in. at Barcelona and Pesaro, and some snow at various places in central Europe. Temperature remained below 45° in many parts of these islands and France, and below 40° very generally in the central countries of the Continent, as well as at Turin. In Russia and central Sweden frost continued throughout. The thermometer fell below 32° in a few British localities, and to much below it in Germany and Austria-Hungary. In Algeria the maximum readings were above 60°, but at Laghouat the minimum was as low as 28°.

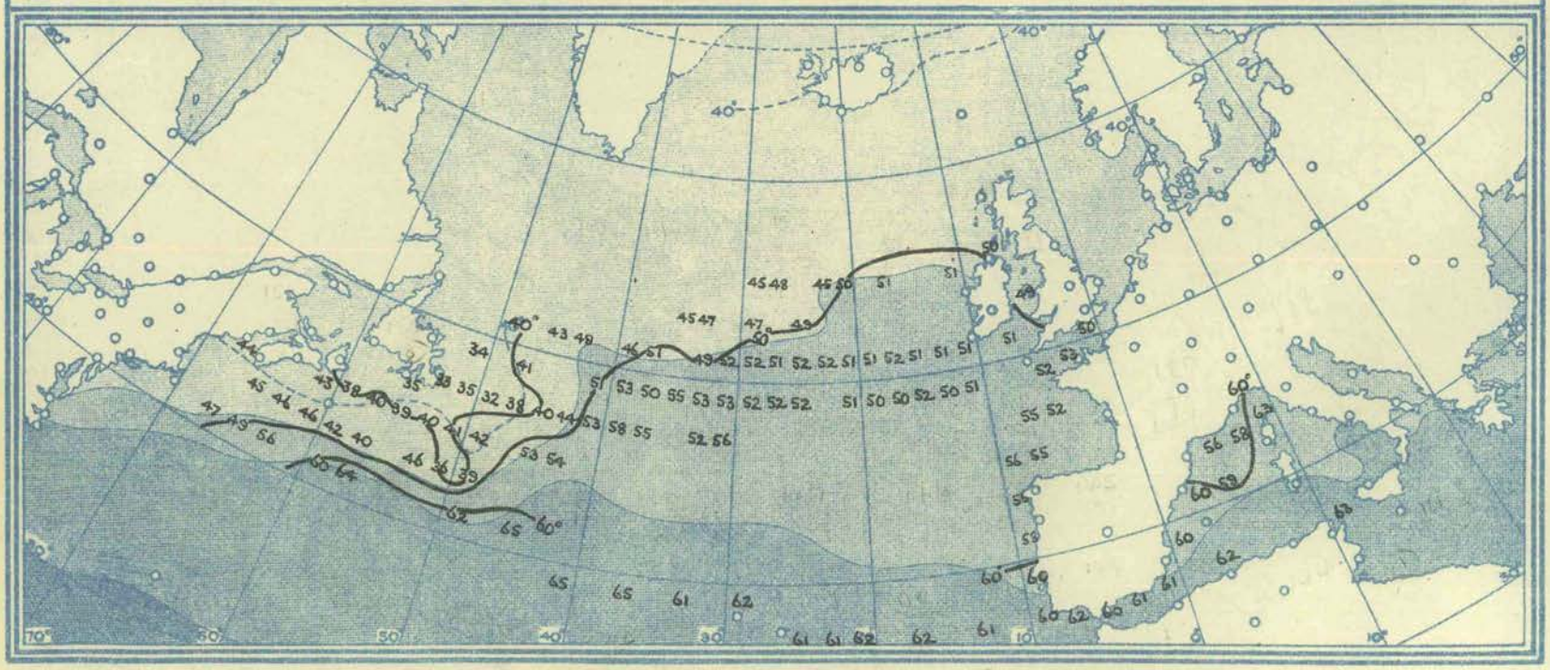


Dec. 19th.—No change of importance occurred during day in the pressure distribution; the anticyclone over the British area extended somewhat in a north-easterly direction. Frost continued throughout the day in Russia and over a considerable portion of central Europe, and in some French localities the maximum temperature was little above 32°. In almost all parts of these Islands the thermometer rose some degrees above 40°, and on several shores of the Mediterranean it touched 60°. At Tunis, where the maximum was 64°, the minimum was as low as 27°. Slight rain fell locally in England and Norway and a rather large amount in the extreme south of France; 0·9in. at Perpignan. Snow was experienced in Russia, yielding, when melted, as much as 0·7in. at Kharkoff, and rain in Greece. In the south and south-east of England the day was very bright.



Dec. 20th.—The anticyclonic system maintained its position with little modification during day, but a depression in the far north caused a considerable increase in the gradient and force of the Westerly wind over Scandinavia. Rather heavy rain fell in the south of France and at Lisbon, smaller amounts locally in Italy, and rain or snow in northern and eastern Europe. Frost continued all day in the east of France, some parts of Austria-Hungary, and in Russia, and occurred at night over the greater part of the Continent, and also in some parts of the United Kingdom. Maximum temperature readings above 60° were recorded in Algeria and the Mediterranean Islands, but on the Riviera and in Italy they were no higher than 50°, and on the west coast of France 40°. Over the British Isles the thermometer rose to 40° or a few degrees above.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 20TH DECEMBER, 1913.



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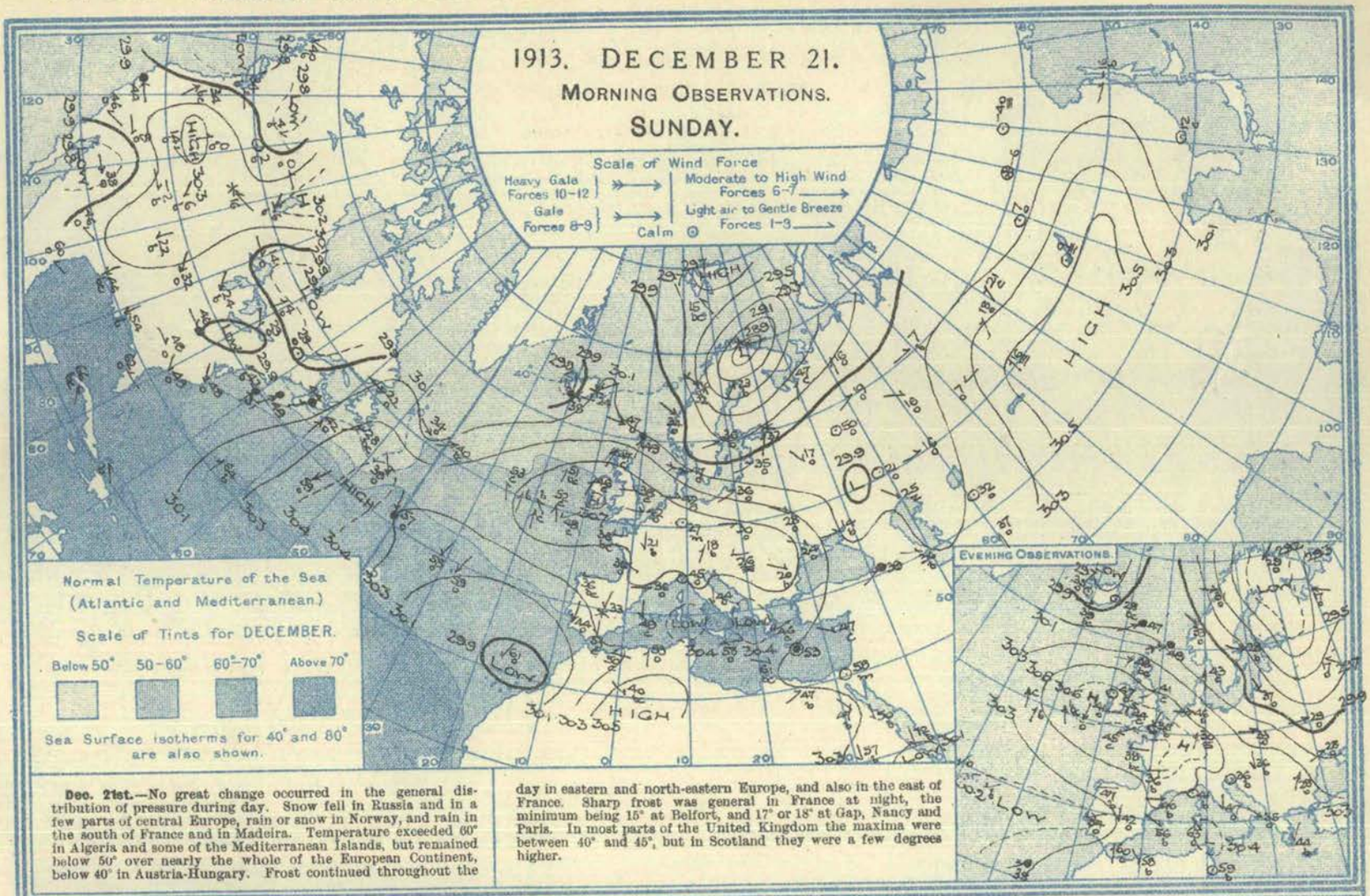
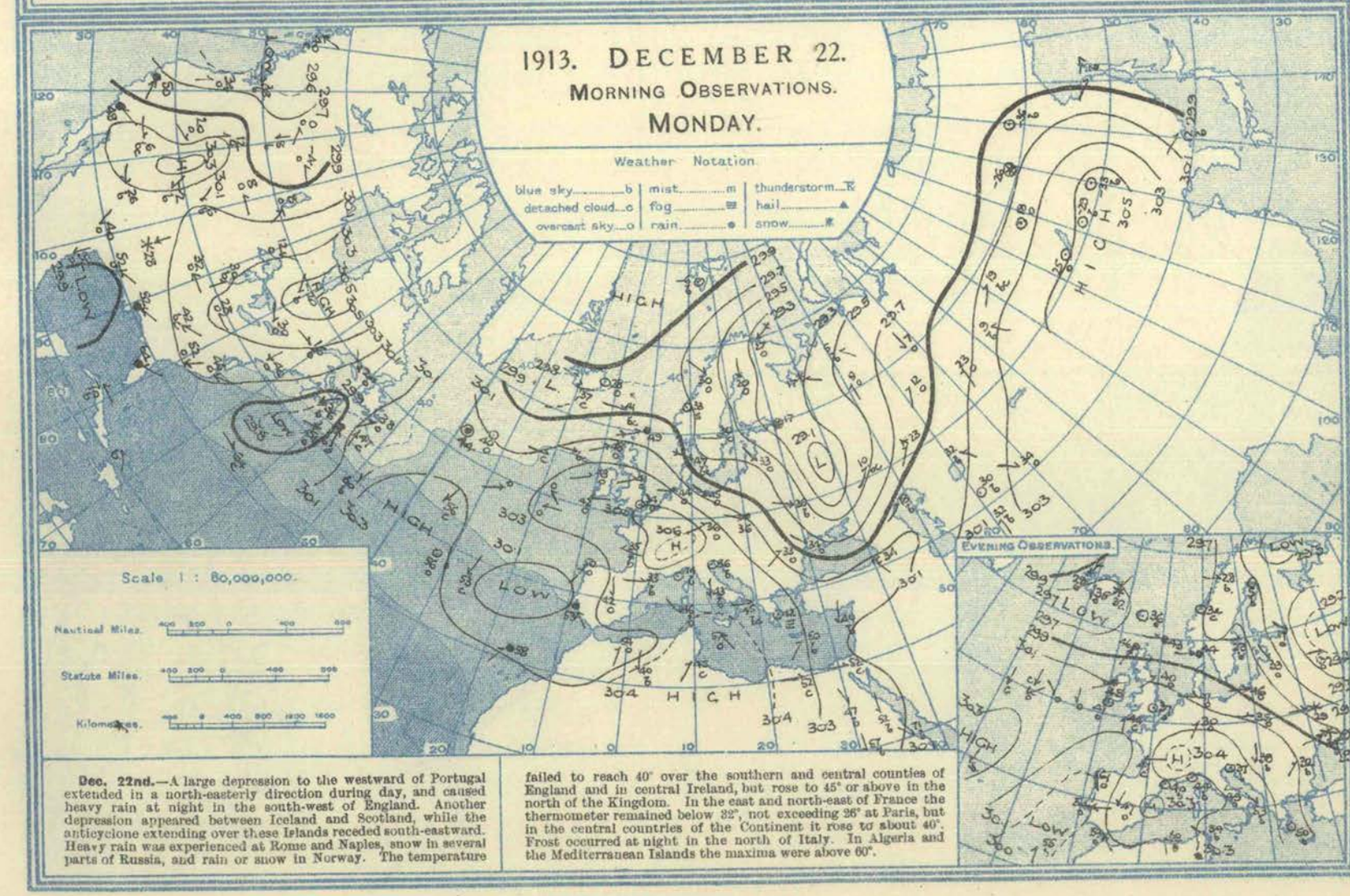
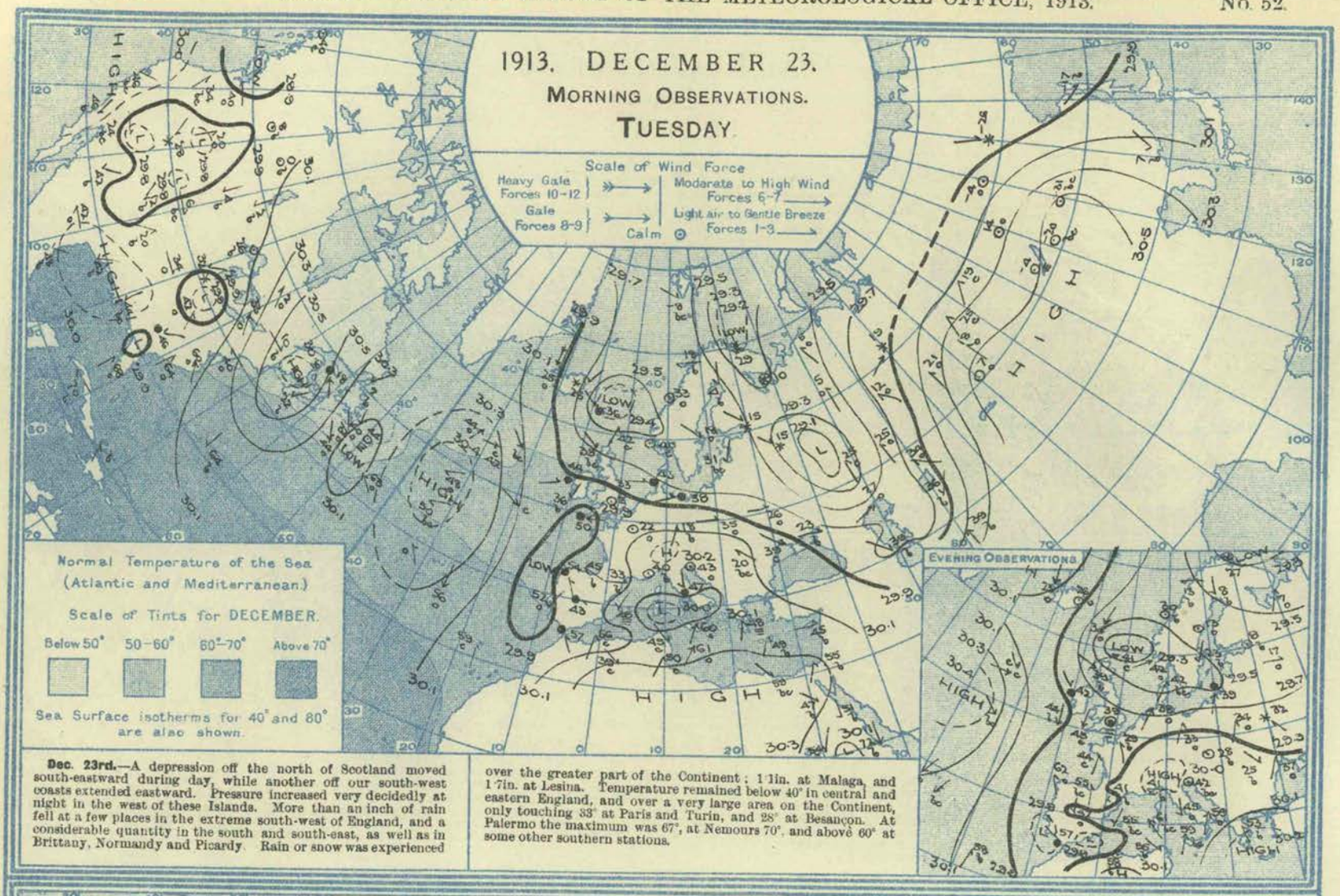


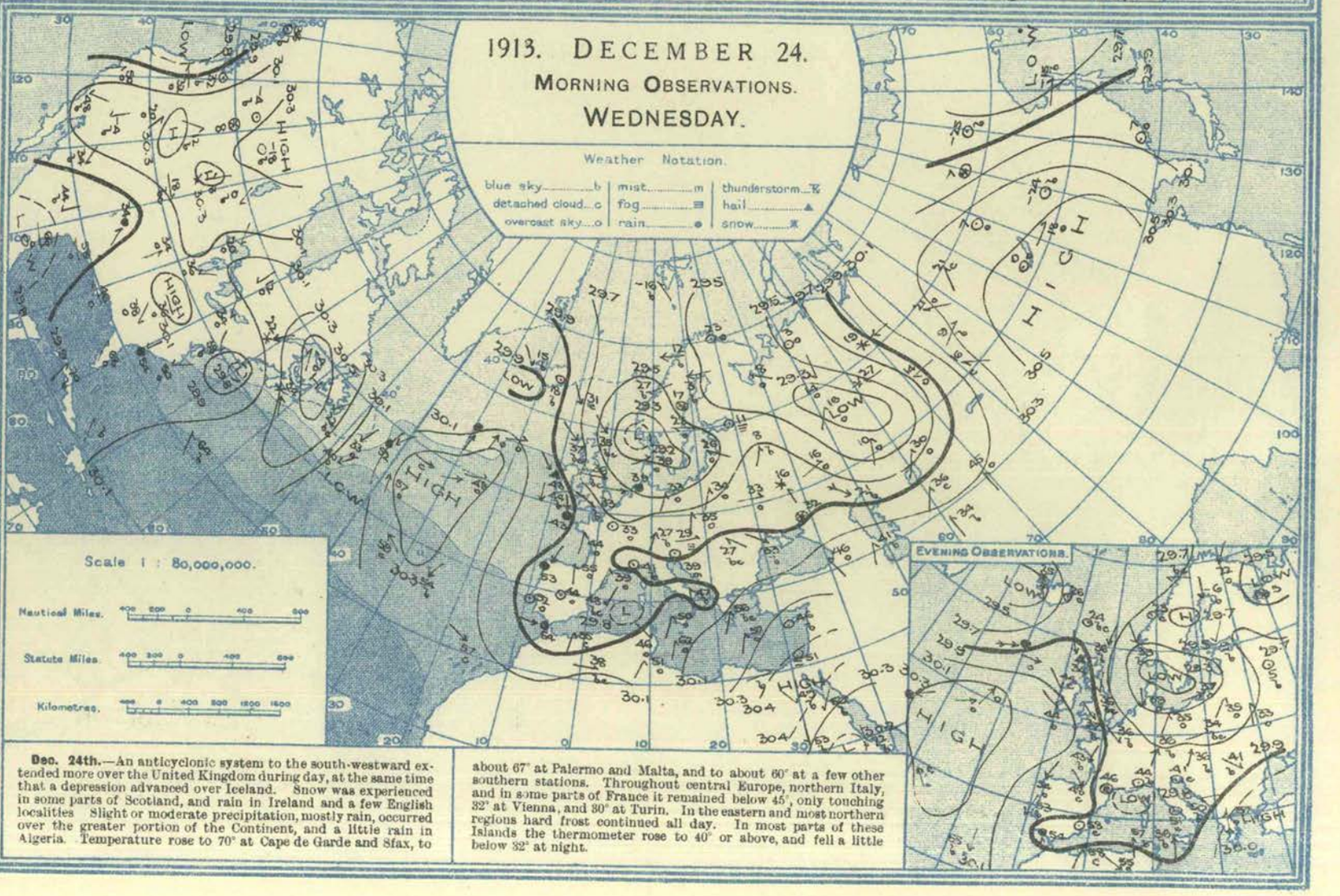
Dec. 21st.—No great change occurred in the general distribution of pressure during day. Snow fell in Russia and in a few parts of central Europe, rain or snow in Norway, and rain in the south of France and in Madeira. Temperature exceeded 60° in Algeria and some of the Mediterranean Islands, but remained below 50° over nearly the whole of the European Continent, below 40° in Austria-Hungary. Frost continued throughout the day in eastern and north-eastern Europe, and also in the east of France. Sharp frost was general in France at night, the minimum being 15° at Belfort, and 17° or 18° at Gap, Nancy and Paris. In most parts of the United Kingdom the maxima were between 40° and 45°, but in Scotland they were a few degrees higher.



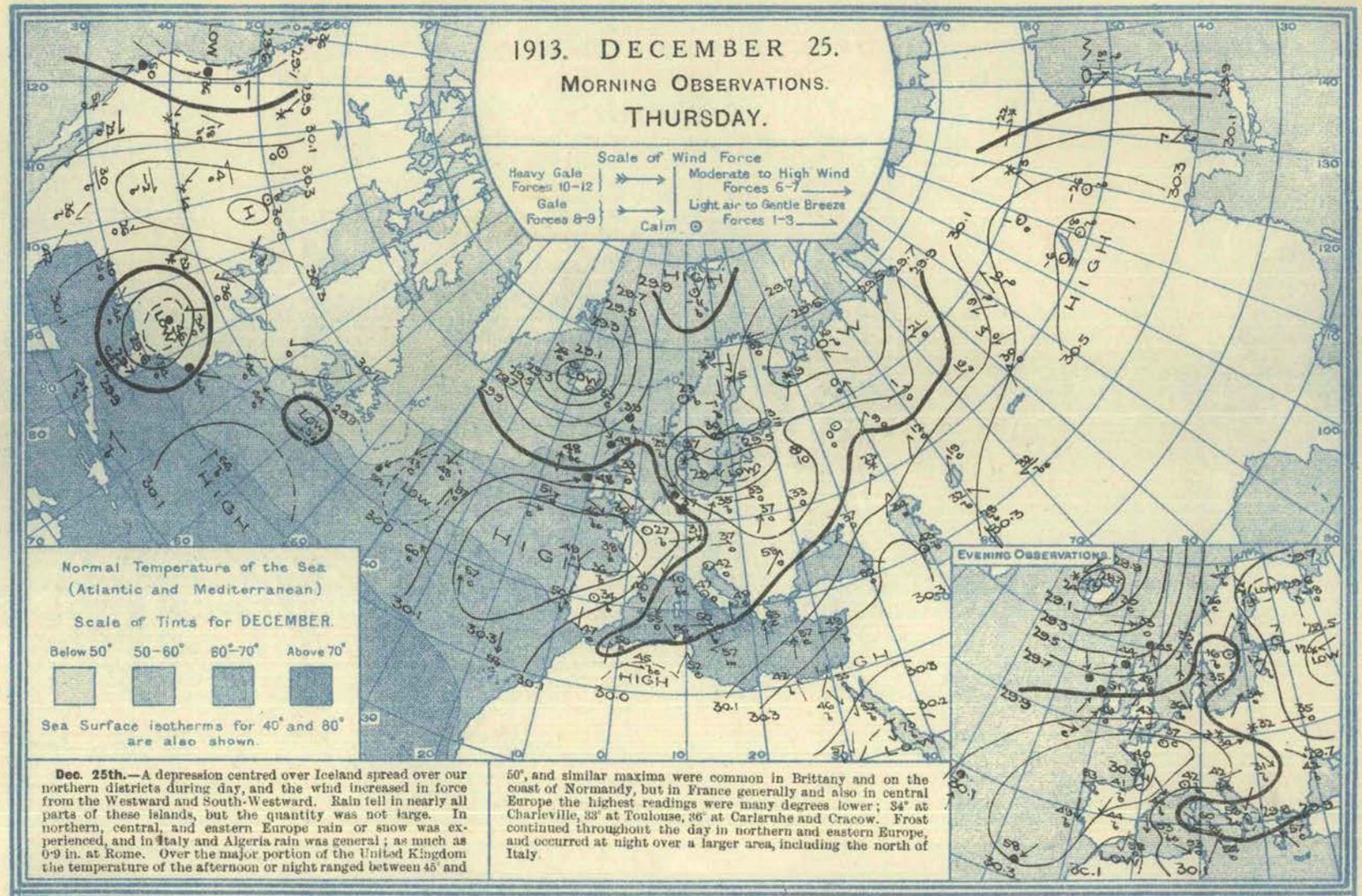
Dec. 22nd.—A large depression to the westward of Portugal extended in a north-easterly direction during day, and caused heavy rain at night in the south-west of England. Another depression appeared between Iceland and Scotland, while the anticyclone extending over these Islands receded south-eastward. Heavy rain was experienced at Rome and Naples, snow in several parts of Russia, and rain or snow in Norway. The temperature failed to reach 40° over the southern and central counties of England and in central Ireland, but rose to 45° or above in the north of the Kingdom. In the east and north-east of France the thermometer remained below 32°, not exceeding 36° at Paris, but in the central countries of the Continent it rose to about 40°. Frost occurred at night in the north of Italy. In Algeria and the Mediterranean Islands the maxima were above 60°.



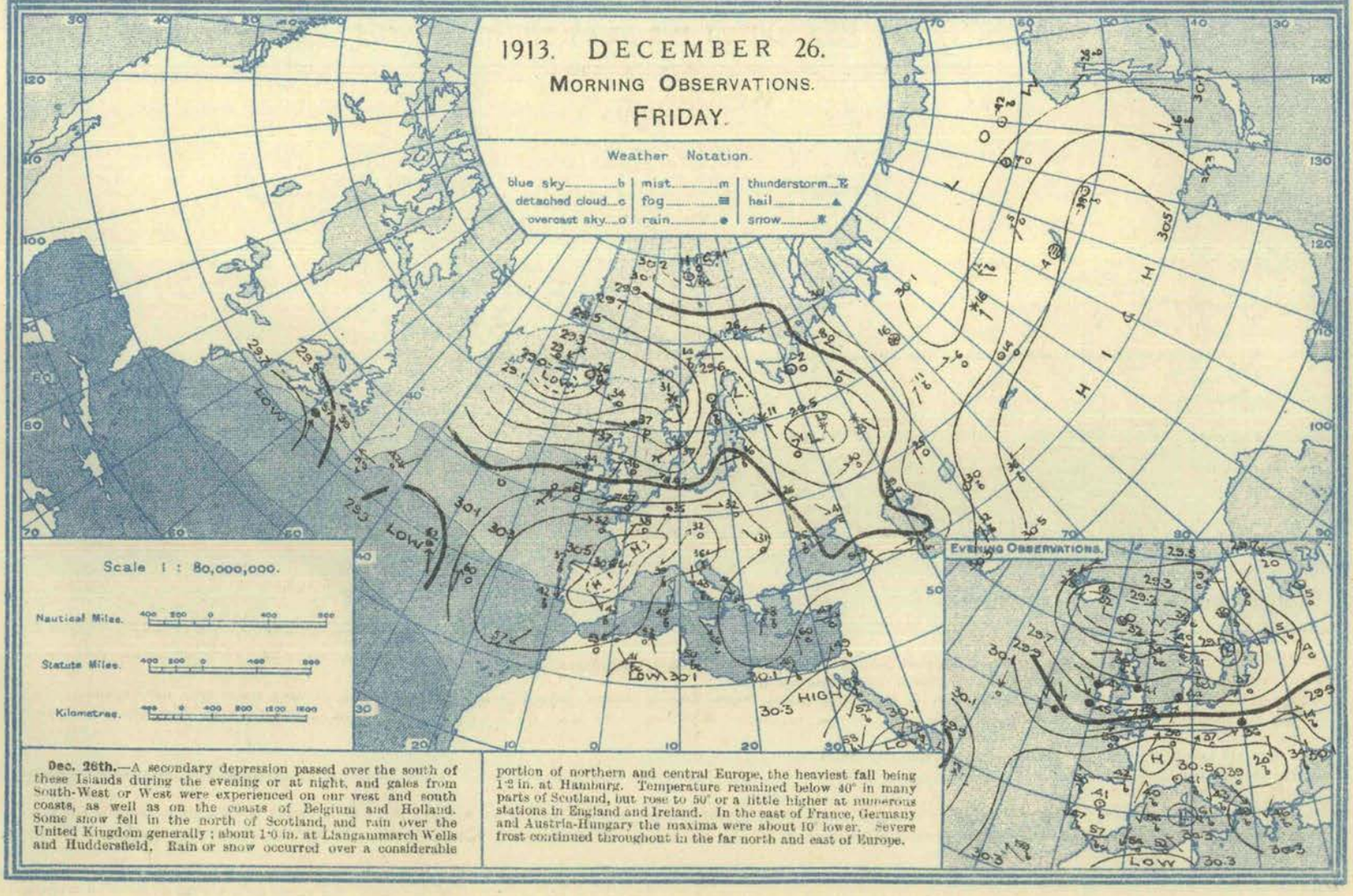
Dec. 23rd.—A depression off the north of Scotland moved south-eastward during day, while another off our south-west coasts extended eastward. Pressure increased very decidedly at night in the west of these Islands. More than an inch of rain fell at a few places in the extreme south-west of England, and a considerable quantity in the south and south-east, as well as in Brittany, Normandy and Picardy. Rain or snow was experienced over the greater part of the Continent; 1·1in. at Malaga, and 1·7in. at Lesina. Temperature remained below 40° in central and eastern England, and over a very large area on the Continent, only touching 33° at Paris and Turin, and 28° at Besançon. At Palermo the maximum was 67°, at Nemours 70°, and above 60° at some other southern stations.



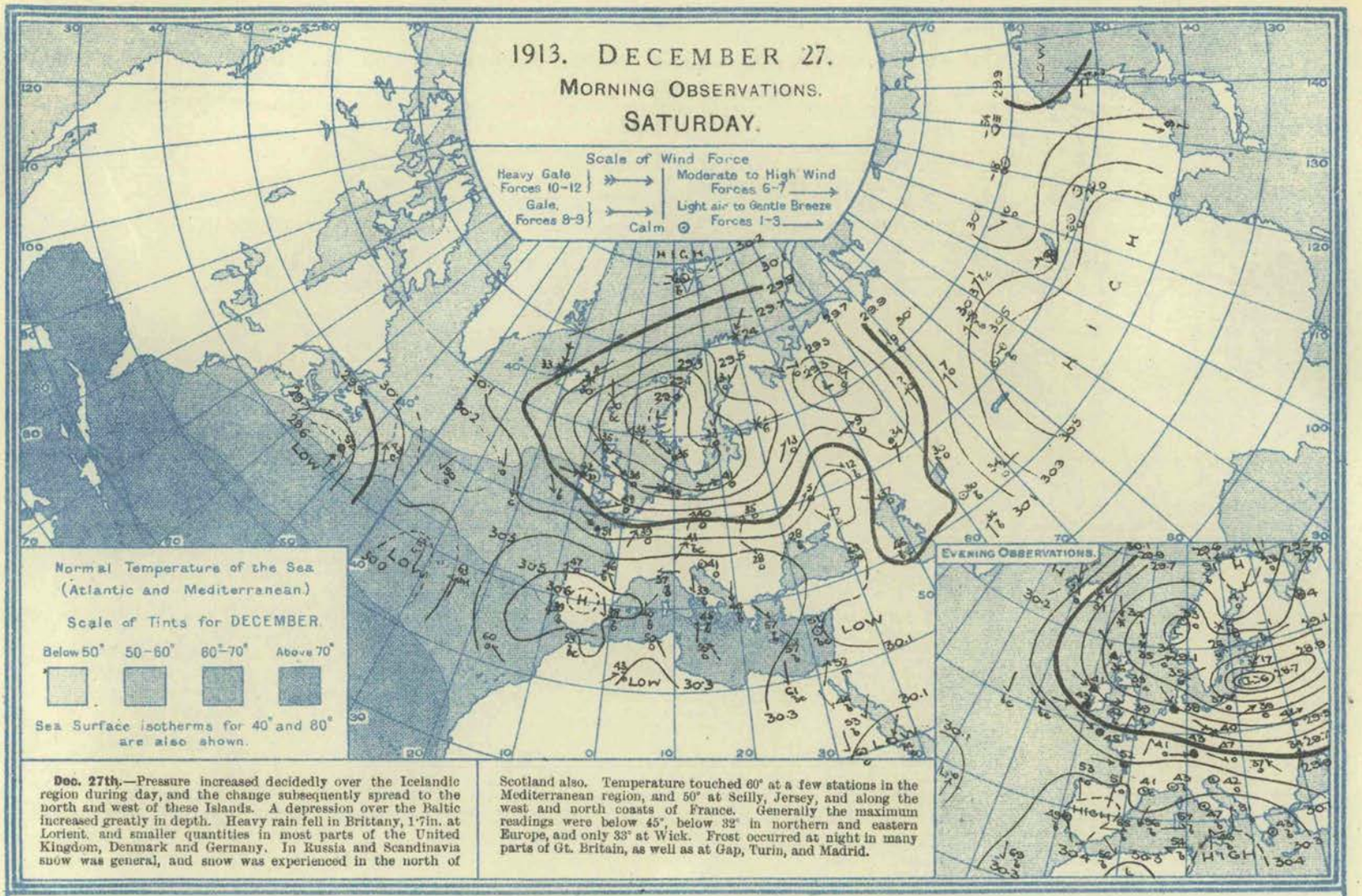
Dec. 24th.—An anticyclonic system to the south-westward extended more over the United Kingdom during day, at the same time that a depression advanced over Iceland. Snow was experienced in some parts of Scotland, and rain in Ireland and a few English localities. Slight or moderate precipitation, mostly rain, occurred over the greater portion of the Continent, and a little rain in Algeria. Temperature rose to 70° at Cape de Garde and Sfax, to about 67° at Palermo and Malta, and to about 60° at a few other southern stations. Throughout central Europe, northern Italy, and in some parts of France it remained below 45°, only touching 32° at Vienna, and 30° at Turin. In the eastern and most northern regions hard frost continued all day. In most parts of these Islands the thermometer rose to 40° or above, and fell a little below 32° at night.



Dec. 25th.—A depression centred over Iceland spread over our northern districts during day, and the wind increased in force from the Westward and South-Westward. Rain fell in nearly all parts of these islands, but the quantity was not large. In northern, central, and eastern Europe rain or snow was experienced, and in Italy and Algeria rain was general; as much as 0·9 in. at Rome. Over the major portion of the United Kingdom the temperature of the afternoon or night ranged between 45° and 50°, and similar maxima were common in Brittany and on the coast of Normandy, but in France generally and also in central Europe the highest readings were many degrees lower; 34° at Charleville, 33° at Toulouse, 36° at Carlsruhe and Cracow. Frost continued throughout the day in northern and eastern Europe, and occurred at night over a larger area, including the north of Italy.

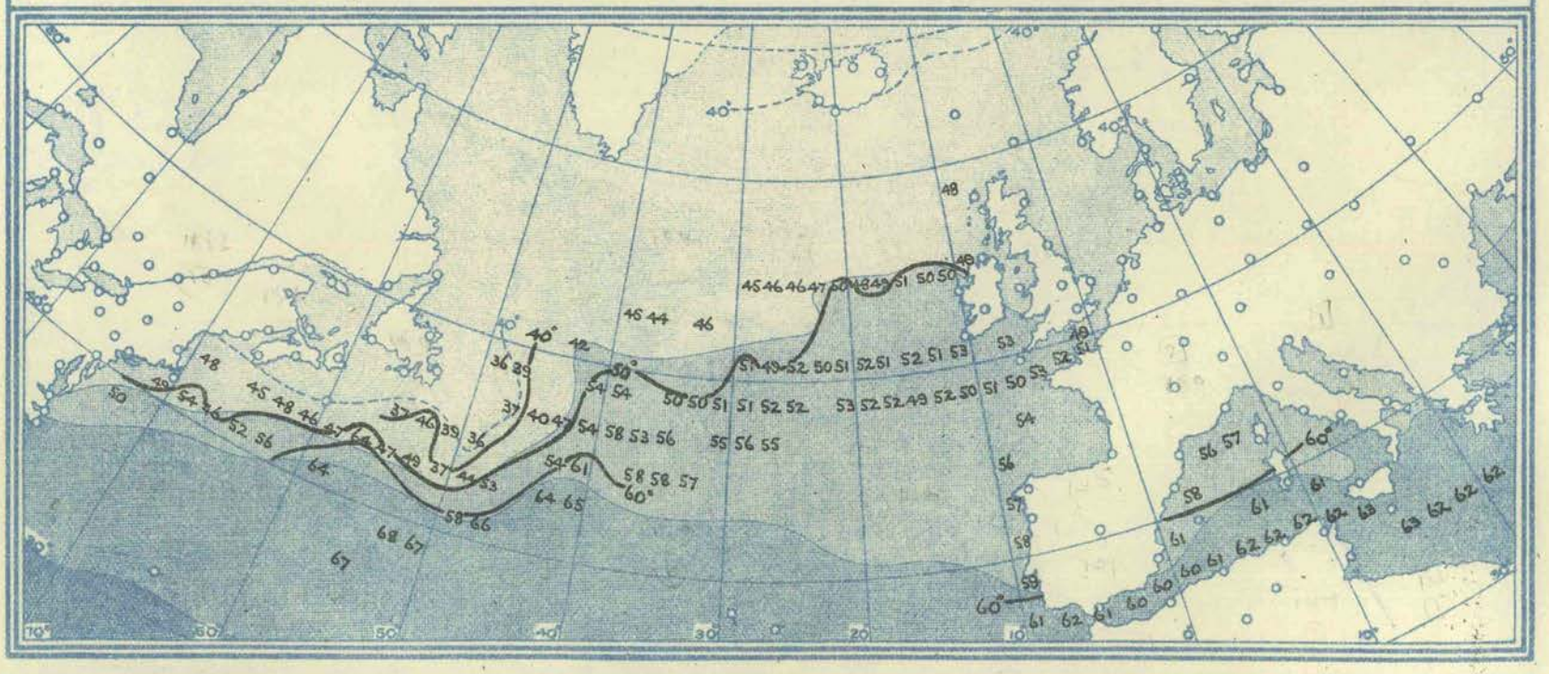


Dec. 26th.—A secondary depression passed over the south of these Islands during the evening or at night, and gales from South-West or West were experienced on our west and south coasts, as well as on the coasts of Belgium and Holland. Some snow fell in the north of Scotland, and rain over the United Kingdom generally; about 1·0 in. at Llangammarch Wells and Huddersfield. Rain or snow occurred over a considerable portion of northern and central Europe, the heaviest fall being 1·2 in. at Hamburg. Temperature remained below 40° in many parts of Scotland, but rose to 50° or a little higher at numerous stations in England and Ireland. In the east of France, Germany and Austria-Hungary the maxima were about 10° lower. Severe frost continued throughout in the far north and east of Europe.



Dec. 27th.—Pressure increased decidedly over the Icelandic region during day, and the change subsequently spread to the north and west of these Islands. A depression over the Baltic increased greatly in depth. Heavy rain fell in Brittany, 1·7in. at Lorient, and smaller quantities in most parts of the United Kingdom, Denmark and Germany. In Russia and Scandinavia snow was general, and snow was experienced in the north of Scotland also. Temperature touched 60° at a few stations in the Mediterranean region, and 50° at Scilly, Jersey, and along the west and north coasts of France. Generally the maximum readings were below 45°, below 32° in northern and eastern Europe, and only 33° at Wick. Frost occurred at night in many parts of Gt. Britain, as well as at Gap, Turin, and Madrid.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 27TH. DECEMBER, 1913.



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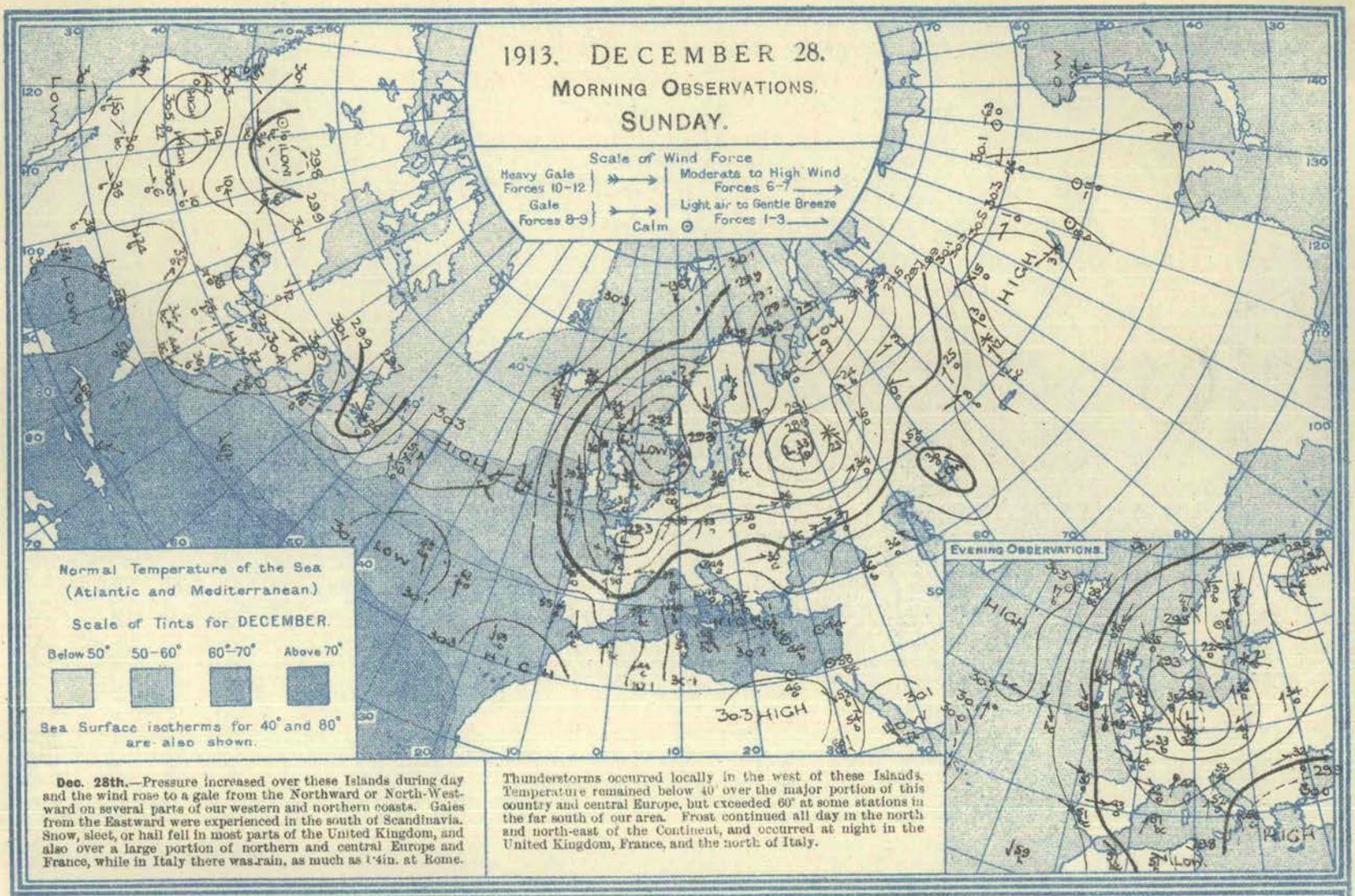
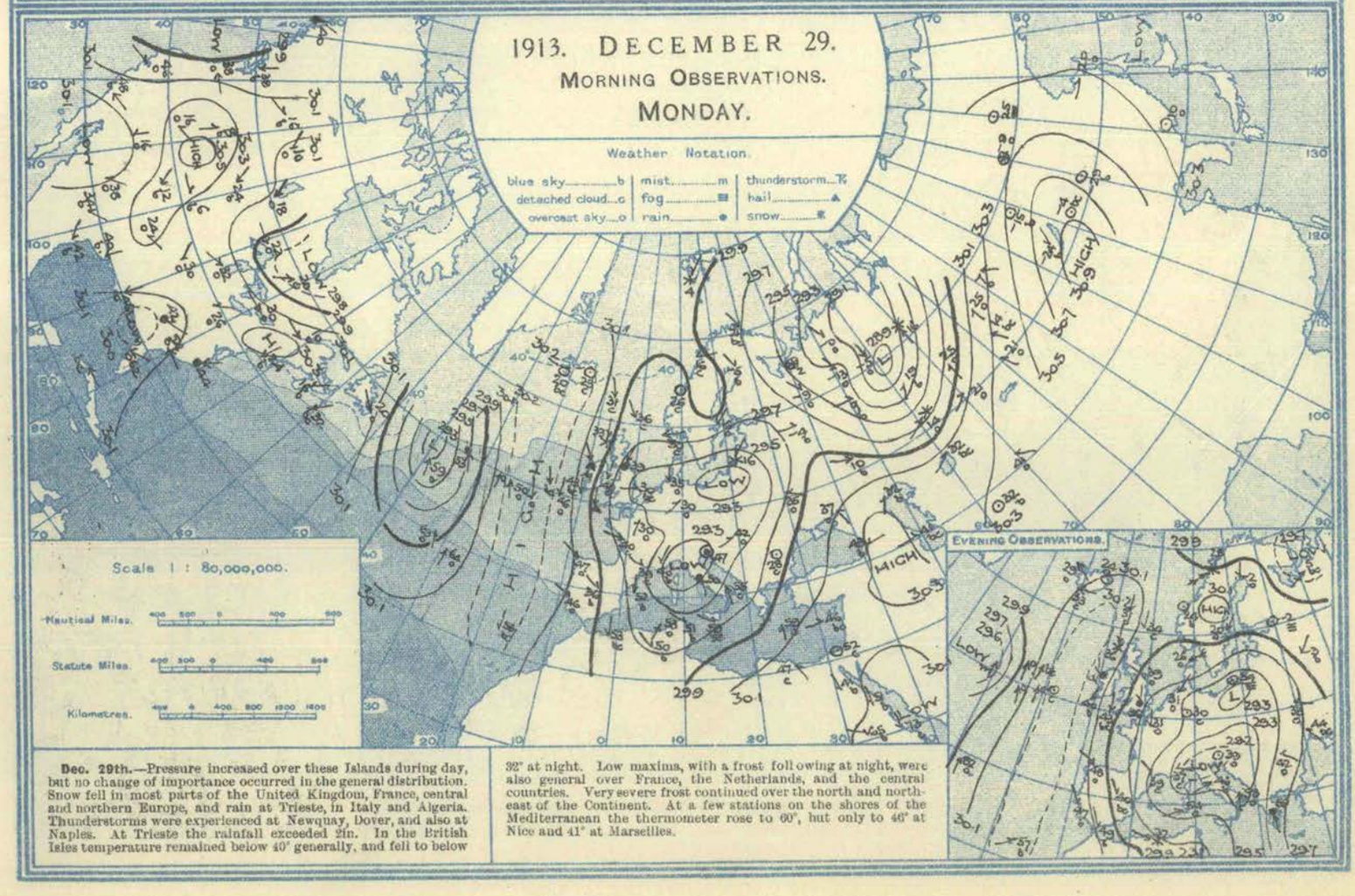
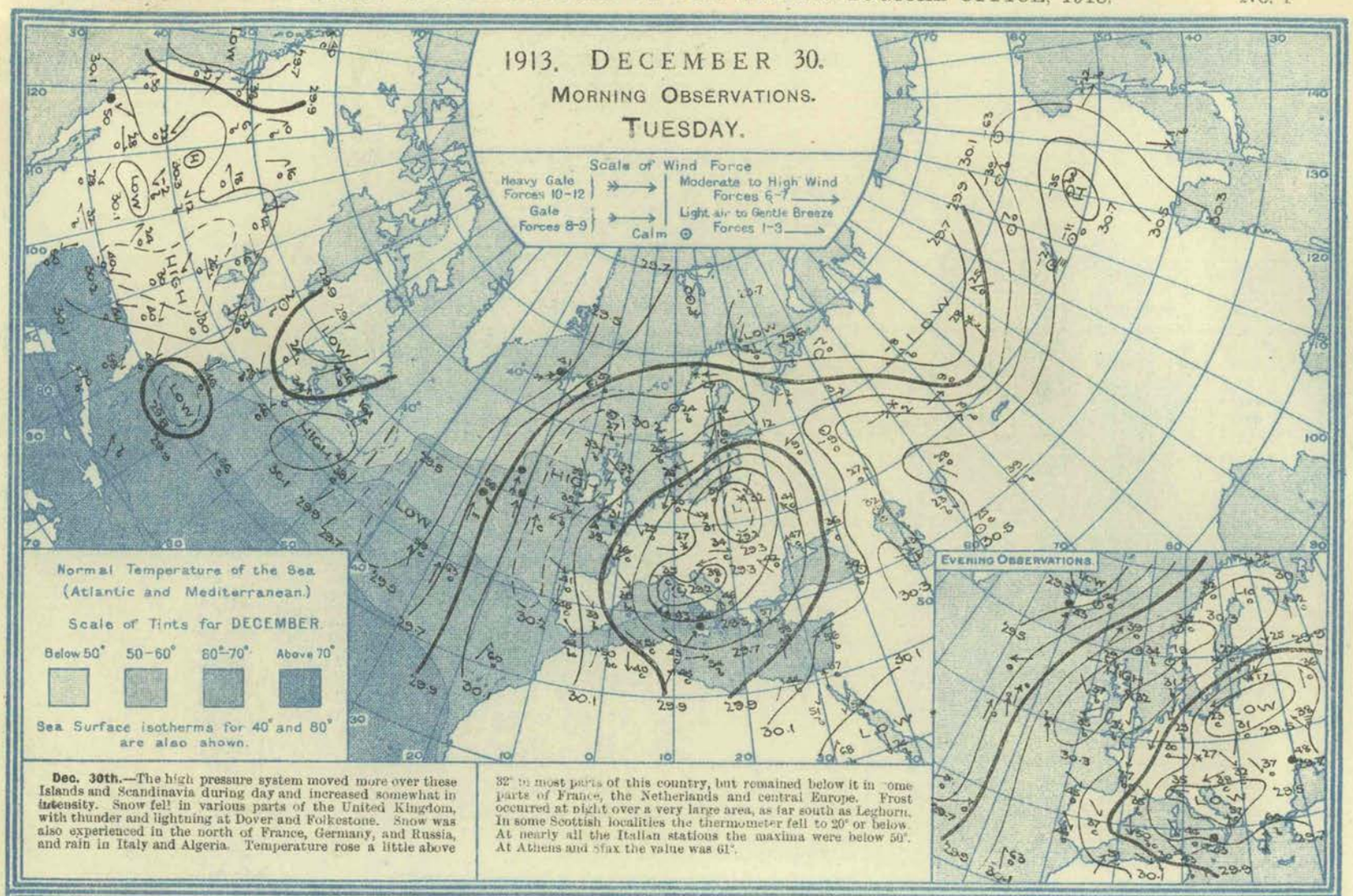


Dec. 28th.—Pressure increased over these Islands during day and the wind rose to a gale from the Northward or North-Westward on several parts of our western and northern coasts. Gales from the Eastward were experienced in the south of Scandinavia. Snow, sleet, or hail fell in most parts of the United Kingdom, and also over a large portion of northern and central Europe and France, while in Italy there was rain, as much as 1·4in. at Rome.

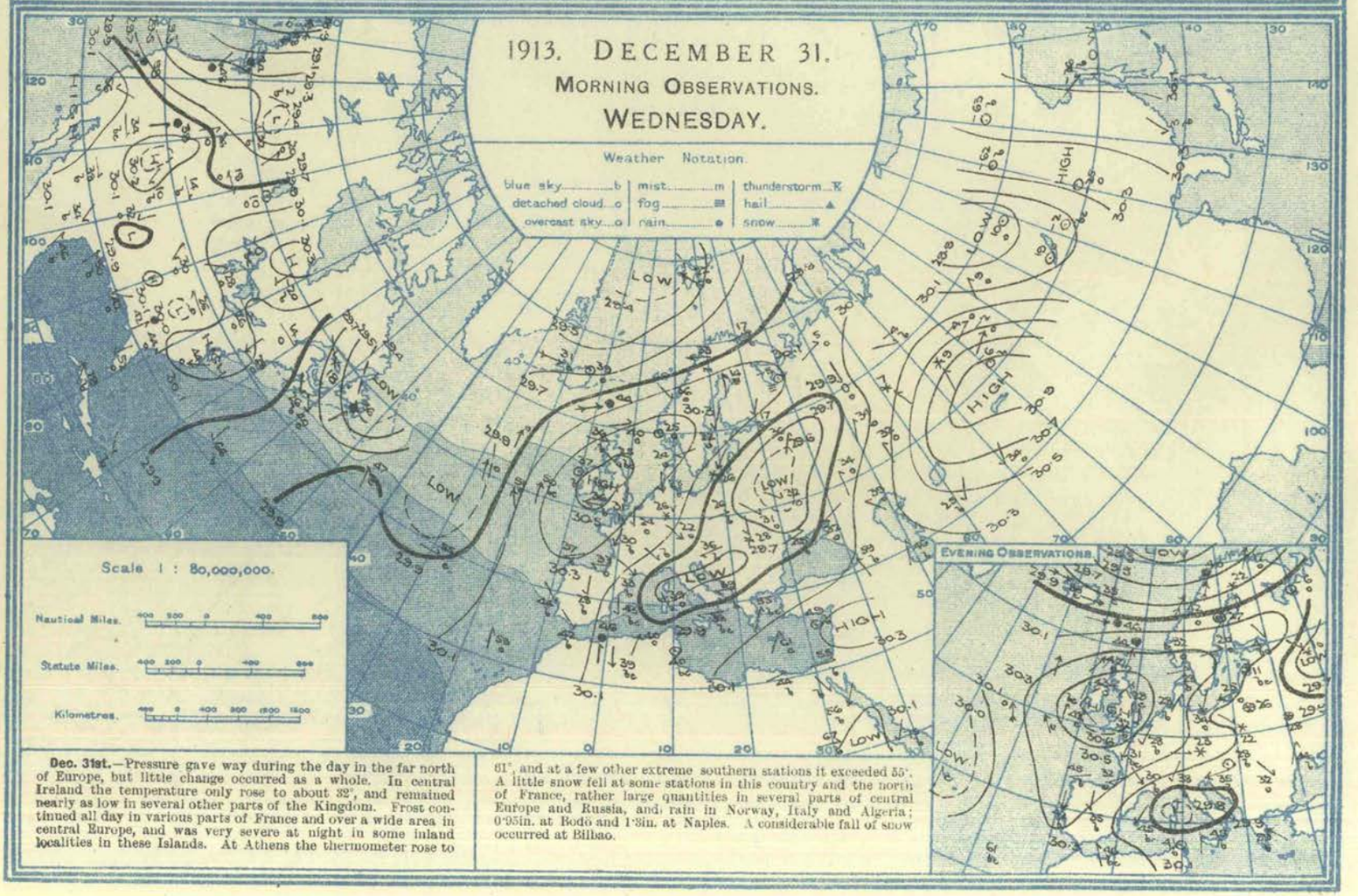
Thunderstorms occurred locally in the west of these Islands. Temperature remained below 40° over the major portion of this country and central Europe, but exceeded 60° at some stations in the far south of our area. Frost continued all day in the north and north-east of the Continent, and occurred at night in the United Kingdom, France, and the north of Italy.



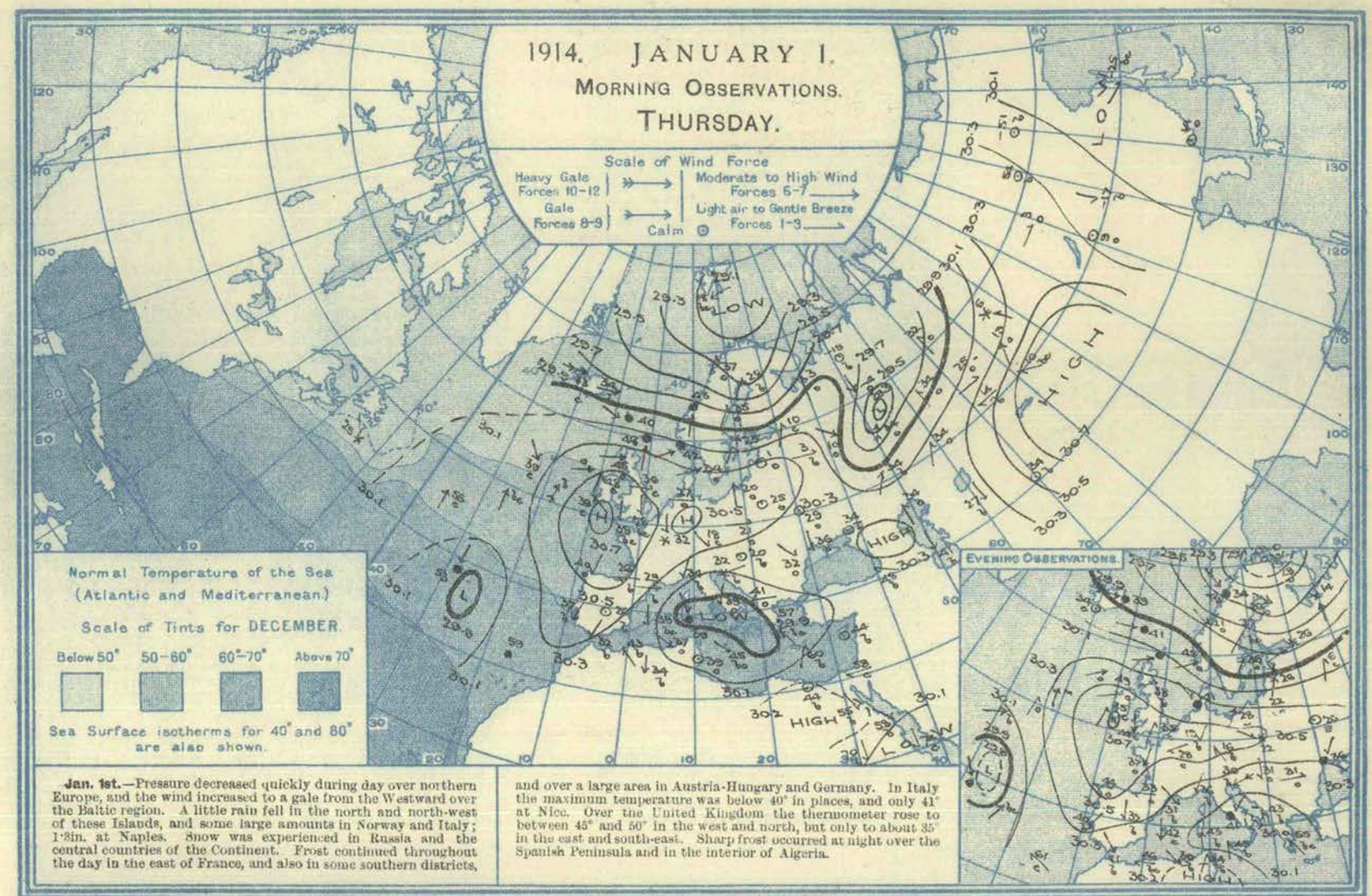
Dec. 29th.—Pressure increased over these Islands during day, but no change of importance occurred in the general distribution. Snow fell in most parts of the United Kingdom, France, central and northern Europe, and rain at Trieste, in Italy and Algeria. Thunderstorms were experienced at Newquay, Dover, and also at Naples. At Trieste the rainfall exceeded 2in. In the British Isles temperature remained below 40° generally, and fell to below 32° at night. Low maxima, with a frost following at night, were also general over France, the Netherlands, and the central countries. Very severe frost continued over the north and north-east of the Continent. At a few stations on the shores of the Mediterranean the thermometer rose to 60°, but only to 46° at Nice and 41° at Marseilles.



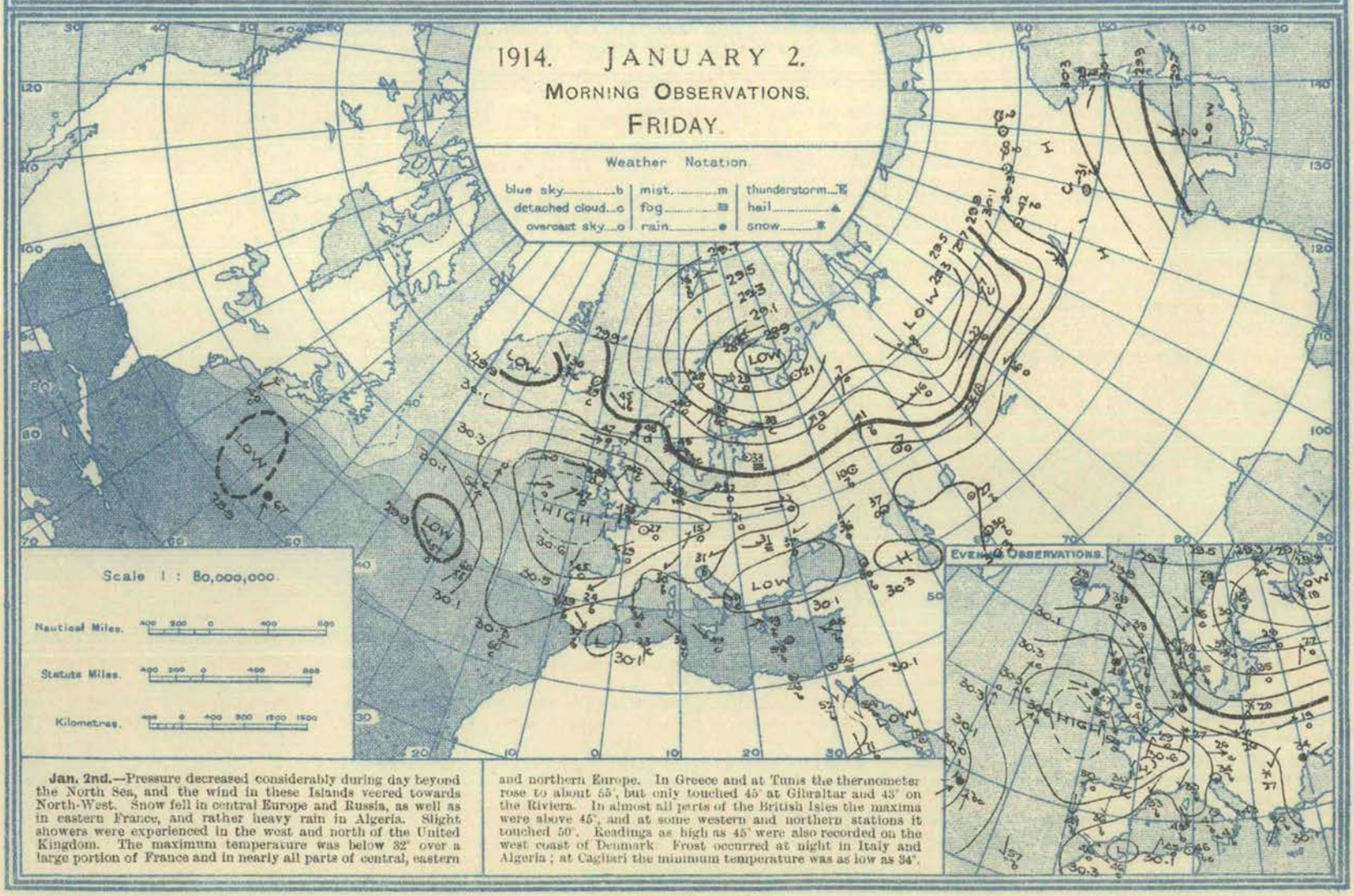
Dec. 30th.—The high pressure system moved more over these Islands and Scandinavia during day and increased somewhat in intensity. Snow fell in various parts of the United Kingdom, with thunder and lightning at Dover and Folkestone. Snow was also experienced in the north of France, Germany, and Russia, and rain in Italy and Algeria. Temperature rose a little above 32° in most parts of this country, but remained below it in some parts of France, the Netherlands and central Europe. Frost occurred at night over a very large area, as far south as Leghorn. In some Scottish localities the thermometer fell to 20° or below. At nearly all the Italian stations the maxima were below 50°. At Athens and Sfax the value was 61°.



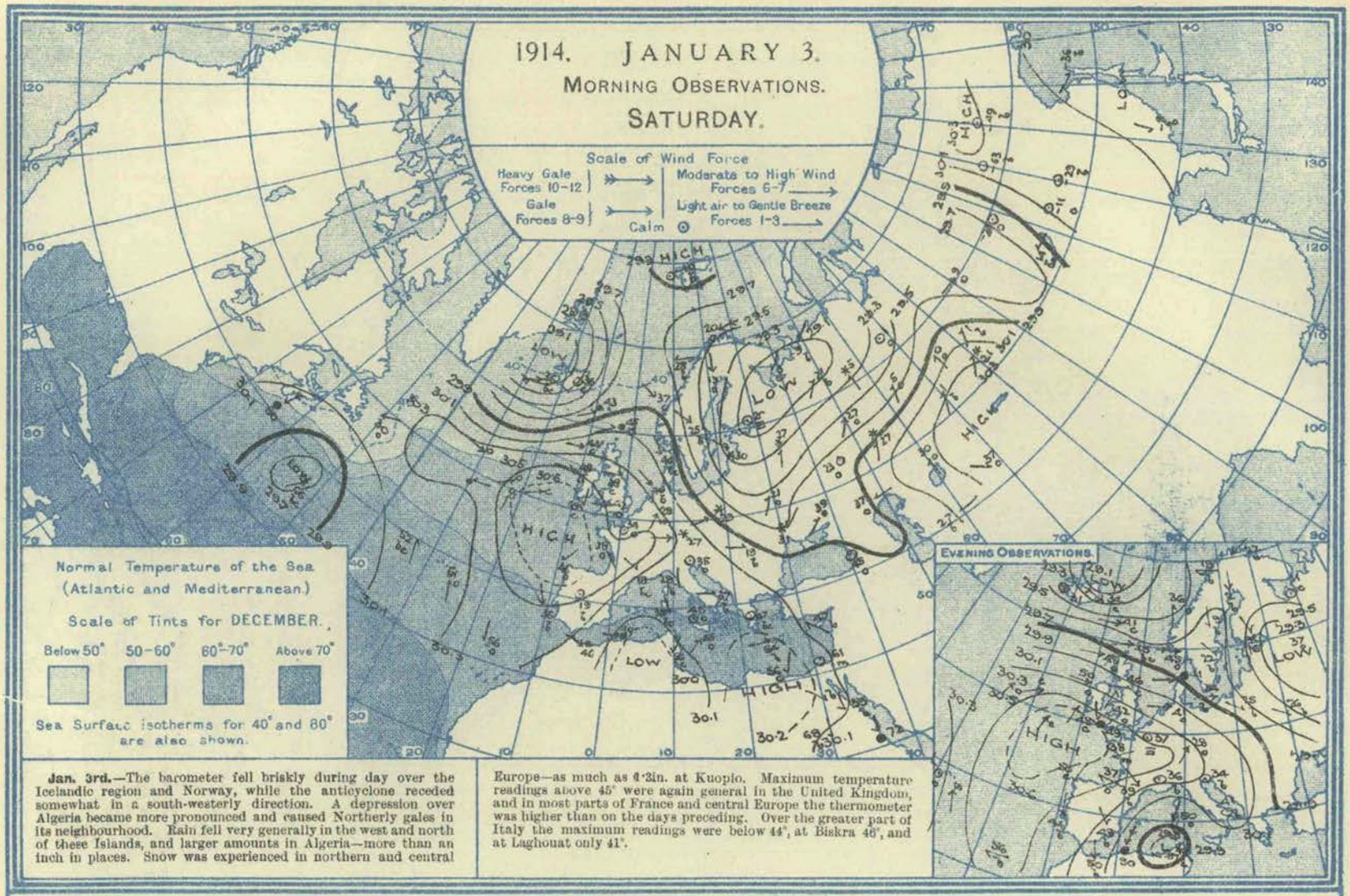
Dec. 31st.—Pressure gave way during the day in the far north of Europe, but little change occurred as a whole. In central Ireland the temperature only rose to about 32°, and remained nearly as low in several other parts of the Kingdom. Frost continued all day in various parts of France and over a wide area in central Europe, and was very severe at night in some inland localities in these Islands. At Athens the thermometer rose to 61°, and at a few other extreme southern stations it exceeded 55°. A little snow fell at some stations in this country and the north of France, rather large quantities in several parts of central Europe and Russia, and rain in Norway, Italy and Algeria; 0·95in. at Bodö and 1·3in. at Naples. A considerable fall of snow occurred at Bilbao.



Jan. 1st.—Pressure decreased quickly during day over northern Europe, and the wind increased to a gale from the Westward over the Baltic region. A little rain fell in the north and north-west of these Islands, and some large amounts in Norway and Italy; 1·8in. at Naples. Snow was experienced in Russia and the central countries of the Continent. Frost continued throughout the day in the east of France, and also in some southern districts, and over a large area in Austria-Hungary and Germany. In Italy the maximum temperature was below 40° in places, and only 41° at Nice. Over the United Kingdom the thermometer rose to between 45° and 50° in the west and north, but only to about 35° in the east and south-east. Sharp frost occurred at night over the Spanish Peninsula and in the interior of Algeria.

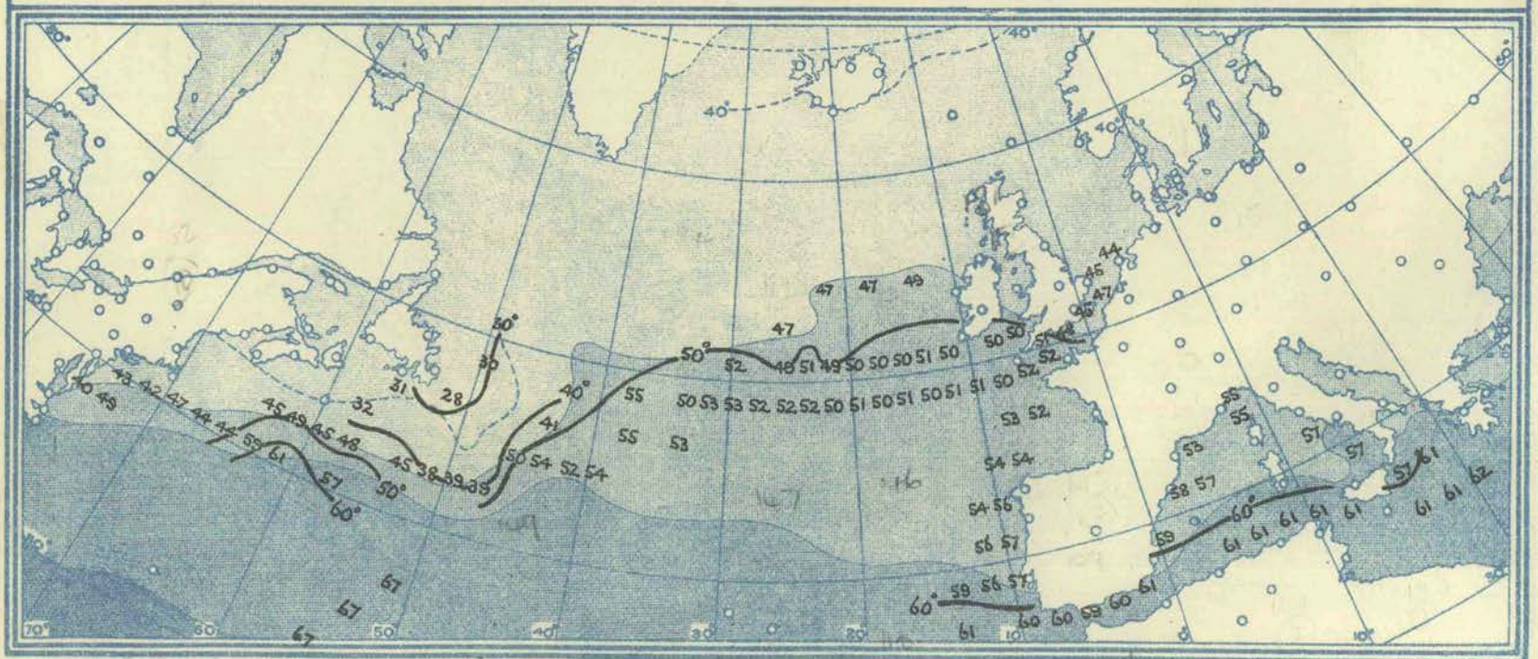


Jan. 2nd.—Pressure decreased considerably during day beyond the North Sea, and the wind in these Islands veered towards North-West. Snow fell in central Europe and Russia, as well as in eastern France, and rather heavy rain in Algeria. Slight showers were experienced in the west and north of the United Kingdom. The maximum temperature was below 32° over a large portion of France and in nearly all parts of central, eastern and northern Europe. In Greece and at Tunis the thermometer rose to about 55°, but only touched 45° at Gibraltar and 43° on the Riviera. In almost all parts of the British Isles the maxima were above 45°, and at some western and northern stations it touched 50°. Readings as high as 45° were also recorded on the west coast of Denmark. Frost occurred at night in Italy and Algeria; at Cagliari the minimum temperature was as low as 34°.



Jan. 3rd.—The barometer fell briskly during day over the Icelandic region and Norway, while the anticyclone receded somewhat in a south-westerly direction. A depression over Algeria became more pronounced and caused Northerly gales in its neighbourhood. Rain fell very generally in the west and north of these Islands, and larger amounts in Algeria—more than an inch in places. Snow was experienced in northern and central Europe—as much as 4·3in. at Kuopio. Maximum temperature readings above 45° were again general in the United Kingdom, and in most parts of France and central Europe the thermometer was higher than on the days preceding. Over the greater part of Italy the maximum readings were below 44°, at Biskra 46°, and at Laghouat only 41°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 3RD JANUARY, 1914.



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FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1913. FIRST QUARTER (JANUARY, FEBRUARY, MARCH).

Thirty-sixth Year.
VOL. XXX. [*New Series.*] } APPENDIX I.

A MILD, WET, AND CLOUDY QUARTER.

[*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-THREE YEARS, 1881-1913.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881-1910.

Eastern Districts.

YEARS.	0. SCOTLAND, N.			1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
LUSTRA.* 1881-1885	65	*14·2*	96	49	8·3	*115*	45	5·1	102	44	*4·9*	*102*	45	6·4	112	43	6·4	105	45	6·2	107
1886-1890	66	*14·5*	98	52	6·6	92	47	5·1	102	47	*4·5*	*94*	43	5·2	91	44	5·4	89	47	5·4	93
1891-1895	64	13·9	94	48	6·8	94	49	5·1	102	48	*4·4*	*92*	45	4·9	86	43	5·3	87	47	5·3	91
1896-1900	67	14·6	99	53	6·7	93	49	5·4	108	49	*5·4*	*113*	46	6·1	107	44	6·5	107	48	6·0	103
1901-1905	69	*16·5*	*111*	55	7·6	106	47	4·6	92	48	*4·6*	*96*	48	6·2	109	48	6·6	108	48	5·9	102
1906-1910	69	15·1	102	52	7·4	103	47	4·9	98	49	*5·0*	*104*	46	5·3	93	48	6·1	100	48	5·7	98
30 years average	**67**	**14·8**	—	**52**	**7·2**	—	**47**	**5·0**	—	**47**	**4·8**	—	**46**	**5·7**	—	**45**	**6·1**	—	**47**	**5·8**	—
1911	58	14·4	97	51	5·8	81	45	4·0	80	54	5·4	113	42	4·1	72	45	5·6	92	47	5·0	87
1912	67	12·1	82	64	7·7	107	59	6·5	130	58	6·8	142	57	9·0	158	58	9·1	149	59	7·8	134
1913	66	15·1	102	59	8·5	118	55	6·3	126	52	5·5	115	53	8·2	144	50	7·5	123	55	7·2	124

Western Districts.

YEARS.	6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
LUSTRA.* 1881-1885	58	*13·2*	*109*	51	8·8	110	53	9·7	104	61	9·4	102	57	11·9	118	58	10·6	109	57	8·2	104	51	8·4	108
1886-1890	53	10·8	89	50	6·9	86	49	8·3	89	56	8·4	91	50	9·5	94	52	8·8	91	57	7·1	90	49	7·1	91
1891-1895	53	10·5	87	47	6·7	84	47	8·1	87	55	7·8	85	49	8·5	84	50	8·3	86	52	7·1	90	49	6·8	87
1896-1900	58	*11·5*	*95*	53	8·3	104	54	10·4	112	61	8·7	95	53	9·9	98	56	9·8	101	58	8·3	105	52	7·9	101
1901-1905	61	*13·7*	*113*	56	8·4	105	54	10·0	108	67	10·3	112	60	11·4	113	60	10·8	111	61	8·7	110	51	8·4	108
1906-1910	56	12·7	105	55	8·9	111	54	9·2	99	66	10·5	114	63	9·6	95	59	10·2	105	56	7·7	97	54	8·0	103
30 years average	**56**	**12·1**	—	**52**	**8·0**	—	**52**	**9·3**	—	**61**	**9·2**	—	**55**	**10·1**	—	**55**	**9·7**	—	**57**	**7·9**	—	**51**	**7·8**	—
1911	49	10·1	83	44	6·3	79	48	7·5	81	48	6·2	67	54	7·0	69	49	7·4	76	55	6·5	82	48	6·2	80
1912	62	13·2	109	60	9·6	120	70	13·6	146	58	10·3	112	72	12·9	128	64	11·9	123	61	11·4	144	62	9·9	127
1913	59	13·3	110	58	10·0	125	62	12·9	139	61	10·9	118	67	13·7	136	61	12·2	126	58	9·6	121	58	9·7	125

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881-1910.

YEARS.	0. °	0. Diff.	1. °	1. Diff.	2. °	2. Diff.	3. °	3. Diff.	4. °	4. Diff.	5. °	5. Diff.	1-5. °	1-5. Diff.
LUSTRA.* 1881-1885	*38·2*	*− 0·1*	*38·0*	*+ 0·1*	39·4	+ 0·3	39·8	+ 0·8	39·9	+ 0·8	41·4	+ 1·0	39·7	+ 0·6
1886-1890	*38·2*	*− 0·1*	37·8	− 0·1	38·3	− 0·8	37·4	− 1·6	37·8	− 1·3	38·8	− 1·6	38·0	− 1·1
1891-1895	37·4	− 0·9	36·8	− 1·1	37·9	− 1·2	37·6	− 1·4	37·8	− 1·3	39·0	− 1·4	37·8	− 1·3
1896-1900	38·7	+ 0·4	38·4	+ 0·5	39·9	+ 0·8	40·1	+ 1·1	40·1	+ 1·0	41·8	+ 1·4	40·1	+ 1·0
1901-1905	38·8	+ 0·5	38·3	+ 0·4	39·9	+ 0·8	40·1	+ 1·1	39·9	+ 0·8	41·2	+ 0·8	39·9	+ 0·8
1906-1910	38·3	0·0	37·8	− 0·1	39·0	− 0·1	39·2	+ 0·2	39·0	− 0·1	40·0	− 0·4	39·0	− 0·1
30 years average	**38·3**	—	**37·9**	—	**39·1**	—	**39·0**	—	**39·1**	—	**40·4**	—	**39·1**	—
1911	39·8	+ 1·5	38·9	+ 1·0	40·0	+ 0·9	39·9	+ 0·9	39·8	+ 0·7	40·5	+ 0·1	39·8	+ 0·7
1912	39·7	+ 1·4	39·0	+ 1·1	40·6	+ 1·5	42·2	+ 3·2	41·1	+ 2·0	43·3	+ 2·9	41·2	+ 2·1
1913	39·5	+ 1·2	38·3	+ 0·4	40·0	+ 0·9	41·7	+ 2·7	40·6	+ 1·5	42·7	+ 2·3	40·7	+ 1·6

YEARS.	6. °	6. Diff.	7. °	7. Diff.	8. °	8. Diff.	9. °	9. Diff.	10. °	10. Diff.	6-10. °	6-10. Diff.	11. °	11. Diff.	1-10. °	1-10. Diff.
LUSTRA.* 1881-1885	*39·9*	*+ 0·1*	40·5	+ 0·5	42·7	+ 1·2	41·3	+ 0·3	43·1	+ 0·5	41·5	+ 0·5	44·9	+ 0·4	40·6	+ 0·5
1886-1890	39·2	− 0·6	38·9	− 1·1	40·2	− 1·3	40·5	− 0·5	41·8	− 0·8	40·1	− 0·9	43·2	− 1·3	39·1	− 1·0
1891-1895	38·7	− 1·1	39·1	− 0·9	40·4	− 1·1	40·1	− 0·9	41·7	− 0·9	40·0	− 1·0	43·5	− 1·0	38·9	− 1·2
1896-1900	40·5	+ 0·7	41·1	+ 1·1	42·7	+ 1·2	41·5	+ 0·5	43·3	+ 0·7	41·8	+ 0·8	45·9	+ 1·4	41·0	+ 0·9
1901-1905	40·4	+ 0·6	40·6	+ 0·6	42·2	+ 0·7	41·2	+ 0·2	42·9	+ 0·3	41·4	+ 0·4	45·1	+ 0·6	40·7	+ 0·6
1906-1910	39·9	+ 0·1	39·8	− 0·2	40·9	− 0·6	41·3	+ 0·3	42·7	+ 0·1	40·9	− 0·1	44·4	− 0·1	40·0	− 0·1
30 years average	**39·8**	—	**40·0**	—	**41·5**	—	**41·0**	—	**42·6**	—	**41·0**	—	**44·5**	—	**40·1**	—
1911	40·8	+ 1·0	41·6	+ 1·6	41·2	− 0·3	41·7	+ 0·7	42·6	0·0	41·6	+ 0·6	44·0	− 0·5	40·7	+ 0·6
1912	40·6	+ 0·8	41·4	+ 1·4	43·4	+ 1·9	42·3	+ 1·2	44·0	+ 1·4	42·3	+ 1·3	46·8	+ 2·3	41·8	+ 1·7
1913	40·4	+ 0·6	41·2	+ 1·2	42·8	+ 1·3	41·7	+ 0·7	42·8	+ 0·2	41·8	+ 0·8	46·1	+ 1·6	41·3	+ 1·2

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1910.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, AND DAILY MEANS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881-1910.

—	0. Th.-hrs.	0. Daily Mean.	0. Per cent. of av.	1. Th.-hrs.	1. Daily Mean.	1. Per cent. of av.	2. Th.-hrs.	2. Daily Mean.	2. Per cent. of av.	3. Th.-hrs.	3. Daily Mean.	3. Per cent. of av.	4. Th.-hrs.	4. Daily Mean.	4. Per cent. of av.	5. Th.-hrs.	5. Daily Mean.	5. Per cent. of av.	1-5. Th.-hrs.	1-5. Daily Mean.	1-5. Per cent. of av.
			%			%			%			%			%			%			%
LUSTRA.* 1881-1885	*·17*	1·9	*94*	*·24*	2·6	*104*	·22	2·4	*89*	·25	2·7	97	·22	2·4	96	·25	2·7	97	·24	2·6	97
1886-1890	*·16*	1·8	*92*	·21	2·3	93	·23	2·5	*94*	·23	2·5	88	·20	2·2	88	·20	2·2	79	·21	2·3	88
1891-1895	*·21*	2·3	*117*	*·26*	2·9	*114*	·29	3·2	*119*	·29	3·2	112	·27	3·0	118	·30	3·3	117	·28	3·1	116
1896-1900	·18	2·0	100	·22	2·4	98	·23	2·5	96	·25	2·7	96	·22	2·4	95	·24	2·6	96	·23	2·5	96
1901-1905	·16	1·8	91	·19	2·1	82	·22	2·4	89	·25	2·7	96	·19	2·1	87	·24	2·6	94	·22	2·4	90
1906-1910	·19	2·1	106	·25	2·7	109	·28	3·1	114	·28	3·1	111	·26	2·9	115	·30	3·3	117	·27	3·0	113
30 years average	**·18**	**2·0**	—	**·23**	**2·5**	—	**·24**	**2·6**	—	**·26**	**2·9**	—	**·23**	**2·5**	—	**·25**	**2·7**	—	**·24**	**2·6**	—
1911	·20	2·2	113	·23	2·5	101	·21	2·3	88	·23	2·5	88	·20	2·2	86	·24	2·6	94	·22	2·4	91
1912	·20	2·2	109	·19	2·2	85	·19	2·0	76	·18	2·0	70	·17	1·8	73	·18	2·0	73	·18	2·0	75
1913	·15	1·6	81	·19	2·1	82	·20	2·2	81	·22	2·5	87	·18	2·0	81	·23	2·6	92	·23	2·3	85

—	6. Th.-hrs.	6. Daily Mean.	6. Per cent. of av.	7. Th.-hrs.	7. Daily Mean.	7. Per cent. of av.	8. Th.-hrs.	8. Daily Mean.	8. Per cent. of av.	9. Th.-hrs.	9. Daily Mean.	9. Per cent. of av.	10. Th.-hrs.	10. Daily Mean.	10. Per cent. of av.	6-10. Th.-hrs.	6-10. Daily Mean.	6-10. Per cent. of av.	11. Th.-hrs.	11. Daily Mean.	11. Per cent. of av.	1-10. Th.-hrs.	1-10. Daily Mean.	1-10. Per cent. of av.
			%			%			%			%			%			%			%			%
LUSTRA.* 1881-1885	·19	2·1	93	·19	2·1	86	*·24*	2·6	*94*	·22	2·4	101	·25	2·7	101	·22	2·4	94	·32	3·5	103	·23	2·5	95
1886-1890	·20	2·2	96	·21	2·3	94	*·24*	2·6	*92*	·20	2·2	91	·25	2·7	102	·22	2·4	94	·30	3·3	96	·22	2·4	91
1891-1895	·24	2·6	117	*·24*	2·6	*109*	·30	3·3	*118*	·24	2·6	111	·27	3·0	110	·26	2·9	113	·36	3·9	116	·27	3·0	115
1896-1900	·20	2·2	98	·22	2·4	99	*·24*	2·6	*94*	·22	2·4	104	·25	2·7	100	·23	2·5	98	·28	3·1	89	·23	2·5	97
1901-1905	·19	2·1	91	·21	2·3	95	·23	2·5	*90*	·20	2·2	94	·22	2·4	90	·21	2·3	91	·27	3·0	87	·22	2·4	91
1906-1910	·22	2·4	105	·26	2·9	119	·29	3·2	112	·22	2·4	100	·24	2·6	97	·25	2·7	106	·33	3·6	107	·26	2·9	109
30 years average	**·21**	**2·3**	—	**·22**	**2·4**	—	**·26**	**2·9**	—	**·22**	**2·4**	—	**·25**	**2·7**	—	**·23**	**2·5**	—	**·31**	**3·4**	—	**·24**	**2·6**	—
1911	·22	2·4	103	·23	2·5	104	·24	2·6	95	·24	2·6	112	·26	2·9	103	·24	2·6	103	·27	3·0	87	·23	2·5	97
1912	·18	2·0	88	·19	2·7	87	·20	2·2	76	·20	2·3	94	·23	2·5	94	·22	2·2	87	·24	2·6	77	·20	2·1	81
1913	·17	1·8	80	·20	2·2	90	·22	2·4	84	·19	2·1	87	·20	2·2	82	·20	2·1	85	·27	3·0	87	·20	2·2	85

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1911 are published in Appendix I. to the Weekly Weather Report for 1911.

Meteorological Office, South Kensington, London, S.W.
May, 1913.

W. N. SHAW,
Director.

(30402—24.) Wt. 196—786. 450. 6/13 D & S.

(31144—24.) Wt. 196—786. 450. 8/13 D & S.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1913. SECOND QUARTER (APRIL, MAY, JUNE).

Thirty-sixth Year.
VOL. XXX. [*New Series.*] } APPENDIX I.

A CLOUDY QUARTER: WET IN THE WEST.

[*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-THREE YEARS, 1881–1913.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
LUSTRA.* 1881-1885 ..	51	In. 8·5	% 100	44	In. 6·4	% 102	43	In. 5·8	% 107	39	In. 5·9	% 107	41	In. 6·5	% 108	38	In. 5·6	% 104	41	In. 6·0	% 105	47	In. 8·4	% 98	42	In. 7·0	% 103	44	In. 7·2	% 104	52	In. 7·2	% 95	46	In. 7·7	% 100	46	In. 7·5	% 100	45	In. 5·6	% 100	44	In. 6·8	% 103
1886-1890 ..	54	7·7	91	43	6·0	94	40	4·8	89	41	5·1	93	41	6·4	107	40	5·7	106	41	5·6	98	45	8·8	102	41	6·5	98	42	6·5	94	48	7·1	93	46	7·5	97	44	7·3	97	46	5·9	105	43	6·5	98
1891-1895 ..	48	7·1	84	42	5·5	87	40	5·2	96	36	4·8	87	35	5·1	86	32	3·8	70	37	4·9	86	42	6·7	78	40	6·0	88	35	5·3	77	47	6·6	87	41	7·1	92	41	6·3	84	36	4·7	84	39	5·6	85
1896-1900 ..	54	8·9	105	48	6·9	110	42	5·4	100	40	5·4	98	40	5·8	97	37	5·0	93	42	5·7	100	50	9·4	109	45	7·3	107	41	7·3	106	55	9·1	120	47	8·5	110	48	8·3	111	42	5·6	100	45	7·0	106
1901-1905 ..	54	9·1	107	48	5·9	94	40	5·0	93	39	5·7	104	40	5·7	95	39	6·1	113	41	5·7	100	46	8·6	100	44	5·9	87	41	7·3	106	53	7·1	93	46	7·2	94	46	7·2	96	45	6·2	111	44	6·4	97
1906-1910 ..	59	9·7	114	52	7·2	114	47	6·1	113	43	6·2	113	46	6·7	112	43	6·4	119	46	6·5	114	51	9·7	113	50	7·9	116	48	8·0	116	58	8·7	114	56	8·3	108	53	8·6	115	41	5·6	100	50	7·5	114
30 years average ..	**53**	**8·5**	—	**46**	**6·3**	—	**42**	**5·4**	—	**40**	**5·5**	—	**41**	**6·0**	—	**38**	**5·4**	—	**41**	**5·7**	—	**47**	**8·6**	—	**44**	**6·8**	—	**42**	**6·9**	—	**52**	**7·6**	—	**47**	**7·7**	—	**46**	**7·5**	—	**43**	**5·6**	—	**44**	**6·6**	—
1911	48	9·6	113	45	6·5	103	37	6·2	115	33	4·9	89	31	4·2	70	30	4·4	81	35	5·2	91	42	8·8	102	38	7·2	106	35	6·4	93	40	6·2	82	44	7·0	91	40	7·1	95	34	5·3	95	38	6·2	94
1912	56	11·1	131	48	6·1	97	43	7·7	143	36	3·8	69	38	6·8	113	31	4·8	89	39	5·8	102	50	9·3	108	43	6·9	101	40	7·5	108	48	7·5	99	53	8·6	112	47	8·0	107	46	5·1	91	43	6·9	105
1913	57	10·8	127	48	7·0	111	44	6·1	113	38	4·8	87	44	6·5	108	38	5·4	100	42	6·0	105	58	10·6	123	52	8·7	123	50	9·1	132	63	10·6	139	62	11·6	151	57	10·1	135	49	6·2	111	50	8·0	121

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

	0. SCOTLAND, N.		Eastern Districts. 1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.E.		DISTRICTS 1-5.		Western Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W. AND NORTH WALES.		8. SOUTH WALES AND ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		DISTRICTS 6-10.		11. ENGLISH CHANNEL.		DISTRICTS 1-10 COMBINED.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
LUSTRA.* 1881-1885 ..	47·6	0·0	48·3	− 0·1	49·6	0·0	51·4	+ 0·1	51·2	+ 0·1	52·5	+ 0·1	50·6	0·0	49·5	− 0·4	50·4	− 0·3	51·1	− 0·5	50·2	− 0·1	51·1	− 0·6	50·5	− 0·3	52·4	− 0·7	50·6	− 0·1
1886-1890 ..	47·7	+ 0·1	48·6	+ 0·2	49·1	− 0·5	51·0	− 0·3	50·9	− 0·2	52·2	− 0·2	50·4	− 0·2	49·7	− 0·2	50·4	− 0·3	51·4	− 0·2	50·3	0·0	51·6	− 0·1	50·7	− 0·1	52·5	− 0·6	50·5	− 0·2
1891-1895 ..	48·2	+ 0·6	48·9	+ 0·3	49·7	+ 0·1	51·5	+ 0·2	51·8	+ 0·7	53·2	+ 0·8	51·0	+ 0·4	50·5	+ 0·6	51·5	+ 0·8	52·5	+ 0·9	51·3	+ 1·0	52·6	+ 0·9	51·7	+ 0·9	54·0	+ 0·9	51·4	+ 0·7
1896-1900 ..	48·0	+ 0·2	48·9	+ 0·5	49·9	+ 0·3	51·5	+ 0·2	51·4	+ 0·3	52·9	+ 0·5	50·9	+ 0·3	50·4	+ 0·5	51·4	+ 0·7	52·4	+ 0·8	50·9	+ 0·6	52·5	+ 0·8	51·5	+ 0·7	53·6	+ 0·5	51·2	+ 0·5
1901-1905 ..	47·4	− 0·2	48·0	− 0·4	49·3	0·0	51·1	− 0·2	50·5	− 0·6	51·8	− 0·6	50·2	− 0·4	49·6	− 0·3	50·5	− 0·2	51·5	− 0·1	49·9	− 0·4	51·5	− 0·2	50·6	− 0·2	53·1	0·0	50·4	− 0·3
1906-1910 ..	46·9	− 0·7	47·6	− 0·8	49·8	+ 0·2	51·3	0·0	50·8	− 0·3	51·7	− 0·7	50·4	− 0·2	49·4	− 0·5	50·1	− 0·6	50·9	− 0·7	49·4	− 0·9	51·1	− 0·6	50·2	− 0·6	52·8	− 0·3	50·3	− 0·4
30 years average ..	**47·6**	—	**48·4**	—	**49·6**	—	**51·3**	—	**51 1**	—	**52·4**	—	**50·6**	—	**49·9**	—	**50·7**	—	**51·6**	—	**50·3**	—	**51·7**	—	**50·8**	—	**53·1**	—	**50·7**	—
1911	48·7	+ 1·1	49·8	+ 1·4	51·5	+ 1·9	52·9	+ 1·6	52·7	+ 1·6	52·9	+ 0·5	52·0	+ 1·4	51·1	+ 1·2	52·0	+ 1·3	52·6	+ 1·0	50·9	+ 0·6	52·8	+ 1·1	51·9	+ 1·1	53·6	+ 0·5	52·0	+ 1·3
1912	48·0	+ 0·4	49·0	+ 0·6	50·8	+ 1·2	53·1	+ 1·8	52·2	+ 1·1	53·2	+ 0·8	51·7	+ 1·1	50·6	+ 0·7	51·3	+ 0·6	52·3	+ 0·7	50·8	+ 0·5	52·2	+ 0·5	51·4	+ 0·6	54·7	+ 1·6	51·6	+ 0·9
1913	47·7	+ 0·1	48·1	− 0·3	50·3	+ 0·7	52·2	+ 0·9	51·2	+ 0·1	52·3	− 0·1	50·8	+ 0·2	49·5	− 0·4	50·5	− 0·2	51·2	− 0·4	49·1	− 1·2	50·4	− 1·3	50·1	− 0·7	52·3	− 0·8	50·5	− 0·2

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1911.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, AND DAILY MEANS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Th.-hrs.	Daily Mean.	Per cent of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.
LUSTRA.* 1881-1885 ..	·45	4·9	% 98	·50	5·5	% 98	·56	6·1	% 105	·60	6·6	% 104	·52	5·8	% 106	·58	6·4	% 98	·55	6·1	% 101	·54	5·9	% 100	·54	6·0	% 99	·57	6·2	% 98	·50	5·5	% 101	·56	6·1	% 103	·54	6·0	% 100	·70	7·7	% 102	·54	6·0	% 100
1886-1890 ..	·41	4·5	88	·51	5·6	100	·45	5·4	92	·53	5·9	92	·44	5·2	91	·53	5·8	96	·51	5·5	93	·53	5·9	99	·50	5·5	92	·55	6·0	95	·49	5·4	98	·54	5·9	100	·52	5·7	97	·64	7·0	94	·52	5·7	95
1891-1895 ..	·51	5·6	110	·55	6·0	108	·57	6·3	107	·59	6·4	102	·56	6·2	108	·64	7·0	108	·58	6·4	106	·56	6·1	104	·55	6·1	101	·63	6·9	108	·52	5·7	104	·56	6·1	103	·56	6·2	114	·75	8·3	111	·57	6·3	105
1896-1900 ..	·47	5·2	102	·50	5·5	98	·51	5·6	96	·57	6·2	98	·53	5·8	101	·59	6·5	100	·51	5·9	99	·53	5·9	99	·57	6·3	104	·60	6·6	103	·49	5·4	98	·54	5·9	99	·55	6·0	101	·69	7·5	101	·54	6·0	100
1901-1905 ..	·48	5·3	104	·51	5·6	100	·56	6·2	105	·59	6·5	102	·52	5·7	99	·59	6·4	100	·55	6·1	101	·55	6·1	102	·52	6·4	107	·56	6·2	97	·52	5·7	104	·54	5·9	100	·55	6·1	102	·66	7·2	96	·55	6·1	101
1906-1910 ..	·46	4·9	97	·49	5·4	96	·50	5·5	94	·59	6·4	102	·51	5·6	97	·61	6·7	103	·54	5·9	98	·52	5·7	96	·53	5·8	96	·57	6·2	98	·47	5·2	95	·51	5·6	96	·52	5·7	96	·65	7·1	95	·53	5·8	97
30 years average ..	**·46**	**5·1**	—	**·51**	**5·6**	—	**·53**	**5·9**	—	**·58**	**6·3**	—	**·52**	**5·7**	—	**·59**	**6·5**	—	**·55**	**6·0**	—	**·54**	**5·9**	—	**·55**	**6·0**	—	**·58**	**6·4**	—	**·50**	**5·5**	—	**·54**	**5·9**	—	**·54**	**5·9**	—	**·68**	**7·5**	—	**·55**	**6·0**	—
1911	·48	5·3	105	·55	6·0	108	·55	6·0	103	·62	6·8	102	·53	5·8	101	·64	7·0	108	·58	6·3	105	·59	6·5	109	·59	6·4	107	·63	6·9	109	·56	6·2	113	·56	6·2	104	·59	6·4	108	·70	7·7	103	·58	6·4	107
1912	·40	4·3	86	·42	4·6	82	·48	5·2	90	·62	6·8	107	·50	5·5	96	·64	7·0	109	·53	5·8	97	·48	5·2	89	·51	5·6	93	·53	5·8	91	·42	4·7	85	·50	5·4	93	·49	5·3	90	·68	7·5	101	·51	5·5	94
1913	·39	4·3	84	·46	5·0	90	·47	5·1	87	·52	5·8	91	·46	5·0	89	·54	6·0	92	·49	5·4	90	·41	4·5	76	·43	5·3	88	·48	5·3	83	·41	4·5	82	·46	5·0	85	·44	4·8	81	·53	5·8	78	·46	5·1	85

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1911 are published in Appendix I. to the Weekly Weather Report for 1911.

Meteorological Office, South Kensington, London, S.W.
August 21, 1913.

W. N. SHAW,
Director.

(32377—24.) Wt. 196—788. 450. 11/13 D & S.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1913. THIRD QUARTER (JULY, AUGUST, SEPTEMBER).

Thirty-sixth Year.
Vol. XXX. [*New Series.*] } APPENDIX I.

A DRY QUARTER: DULL IN THE EAST.

[*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-THREE YEARS, 1881–1913.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.			Western Districts. 6. Scotland, W.			7. England, N.W. and North Wales.			8. South Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6-10.			11. English Channel.			Districts 1-10 combined.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.*	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
Lustra.* 1881–1885 ..	56	*10·2*	*86*	51	*9·3*	*111*	46	7·3	107	45	*7·0*	*109*	45	7·5	109	44	6·6	100	46	7·5	107	53	*12·3*	*103*	49	9·8	104	52	10·0	110	60	10·3	102	53	10·2	105	53	10·5	104	54	7·6	107	50	9·0	105
1886–1890 ..	60	*11·5*	*97*	51	7·6	90	46	7·6	112	45	*6·9*	*108*	43	6·8	99	40	6·9	105	45	7·2	103	51	10·9	91	47	9·3	99	46	9·1	100	58	10·3	102	50	9·1	94	50	9·7	96	46	7·1	100	48	8·5	99
1891–1895 ..	65	14·2	119	53	9·3	111	47	7·3	107	45	*7·2*	*113*	45	7·0	101	45	8·1	103	47	7·8	111	52	12·3	103	50	10·7	114	49	10·4	114	60	10·4	103	51	10·4	107	52	10·8	107	48	8·9	124	50	9·3	108
1896–1900 ..	58	12·8	108	50	8·1	96	39	6·2	91	35	*5·4*	*84*	36	6·2	90	33	5·6	85	39	6·3	90	55	*12·2*	*102*	46	9·4	100	42	8·1	89	56	10·0	99	48	10·1	104	49	10·0	99	42	6·3	88	44	8·2	95
1901–1905 ..	63	12·0	101	53	8·0	95	42	6·6	97	36	*6·3*	*98*	40	7·5	109	39	7·0	106	42	7·1	101	51	*13·0*	*108*	49	8·4	90	46	9·1	100	61	10·8	107	52	10·2	105	52	10·3	102	49	7·4	103	47	8·7	101
1906–1910 ..	59	10·5	88	49	8·0	95	43	5·8	85	40	5·3	83	41	6·3	91	37	5·6	85	42	6·2	89	49	11·4	95	48	8·9	95	43	8·0	88	54	9·0	89	52	8·2	85	49	9·1	90	38	5·0	70	45	7·7	90
30 years average ..	**60**	**11·9**	—	**51**	**8·4**	—	**44**	**6·8**	—	**41**	**6·4**	—	**42**	**6·9**	—	**40**	**6·6**	—	**44**	**7·0**	—	**52**	**12·0**	—	**48**	**9·4**	—	**46**	**9·1**	—	**58**	**10·1**	—	**51**	**9·7**	—	**51**	**10·1**	—	**46**	**7·1**	—	**48**	**8·6**	—
1911	57	11·6	97	40	4·2	50	32	4·7	69	26	3·1	48	25	3·6	52	22	2·7	41	29	3·7	53	49	8·0	67	37	7·7	82	27	5·3	58	48	7·2	71	42	8·5	88	40	7·3	72	25	4·8	68	35	5·5	64
1912	48	9·9	83	43	8·8	105	51	9·2	135	48	10·7	167	46	10·0	145	44	7·7	117	46	9·3	133	44	9·8	80	51	10·7	114	50	12·4	136	47	9·5	94	55	10·2	105	49	10·5	104	52	11·7	165	47	9·9	115
1913	42	5·2	44	36	4·6	55	34	4·1	60	36	4·7	73	31	4·5	65	34	5·6	85	34	4·7	67	33	5·7	48	34	6·2	66	32	5·4	59	43	6·1	60	41	6·2	64	37	5·9	58	33	4·5	63	36	5·3	62

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts 6-10.		11. English Channel.		Districts 1-10 combined.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
Lustra.* 1881–1885 ..	*53·7*	*0·0*	*54·8*	*- 0·1*	56·9	- 0·2	58·5	- 0·4	57·7	- 0·3	59·5	- 0·3	57·5	- 0·2	*55·5*	*- 0·2*	56·8	- 0·5	57·7	- 0·7	55·8	- 0·3	56·8	- 0·8	56·5	- 0·5	59·5	- 1·2	57·0	- 0·4
1886–1890 ..	*52·9*	*- 0·8*	54·5	- 0·4	56·3	- 0·8	58·2	- 0·7	57·4	- 0·6	59·2	- 0·6	57·1	- 0·6	55·0	- 0·7	56·6	- 0·7	57·8	- 0·6	55·7	- 0·4	57·2	- 0·4	56·5	- 0·5	59·8	- 0·9	56·8	- 0·6
1891–1895 ..	53·8	+ 0·1	55·1	+ 0·2	56·9	- 0·2	58·6	- 0·3	57·8	- 0·2	59·8	0·0	57·6	- 0·1	55·7	0·0	57·6	+ 0·3	58·2	- 0·2	56·2	+ 0·1	57·4	- 0·2	57·0	0·0	60·8	+ 0·1	57·3	- 0·1
1896–1900 ..	54·5	+ 0·8	55·7	+ 0·8	57·9	+ 0·8	60·0	+ 1·1	59·1	+ 1·1	61·4	+ 1·6	58·8	+ 1·1	56·5	+ 0·8	58·5	+ 1·2	59·9	+ 1·5	57·0	+ 0·9	58·8	+ 1·2	58·1	+ 1·1	62·4	+ 1·7	58·5	+ 1·1
1901–1905 ..	*53·8*	*+ 0·1*	54·9	0·0	57·5	+ 0·4	59·5	+ 0·6	58·0	0·0	59·9	+ 0·1	58·0	+ 0·3	55·8	+ 0·1	57·5	+ 0·2	58·8	+ 0·4	55·9	- 0·2	57·8	+ 0·2	57·2	+ 0·2	60·9	+ 0·2	57·6	+ 0·2
1906–1910 ..	53·4	- 0·3	54·3	- 0·6	57·1	0·0	58·7	- 0·2	57·7	- 0·3	59·1	- 0·7	57·4	- 0·3	55·8	+ 0·1	56·9	- 0·4	58·1	- 0·3	56·0	- 0·1	57·6	0·0	56·9	- 0·1	60·5	- 0·2	57·2	- 0·2
30 years average ..	**53·7**	—	**54·9**	—	**57·1**	—	**58·9**	—	**58·0**	—	**59·8**	—	**57·7**	—	**55·7**	—	**57·3**	—	**58·4**	—	**56·1**	—	**57·6**	—	**57·0**	—	**60·7**	—	**57·4**	—
1911	55·1	+ 1·4	56·5	+ 1·6	60·2	+ 3·1	63·3	+ 4·4	61·9	+ 3·9	63·7	+ 3·9	61·1	+ 3·4	57·7	+ 2·0	60·3	+ 3·0	62·3	+ 3·9	57·9	+ 1·8	59·9	+ 2·3	59·6	+ 2·6	64·4	+ 3·7	60·4	+ 3·0
1912	52·2	- 1·5	52·5	- 2·4	54·9	- 2·2	57·4	- 1·5	55·5	- 2·5	57·3	- 2·5	55·5	- 2·2	54·2	- 1·5	55·2	- 2·1	56·2	- 2·2	53·4	- 2·7	55·0	- 2·6	54·8	- 2·2	58·1	- 2·6	55·2	- 2·2
1913	54·2	+ 0·5	55·0	+ 0·1	56·9	- 0·2	58·2	- 0·7	58·2	+ 0·2	59·3	- 0·5	57·5	- 0·2	56·0	+ 0·3	57·6	+ 0·3	59·1	+ 0·7	56·0	- 0·1	58·1	+ 0·5	57·4	+ 0·4	60·5	- 0·2	57·5	+ 0·1

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1911.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, AND DAILY MEANS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.			Western Districts. 6. Scotland, W.			7. England, N.W. and North Wales.			8. South Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6-10.			11. English Channel.			Districts 1-10 combined.		
	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.
			%			%			%			%			%			%			%			%			%			%			%			%			%			%			%
Lustra.* 1881–1885 ..	*·32*	3·5	*94*	*·41*	4·5	*98*	*·47*	5·1	*97*	*·50*	5·5	93	*·46*	5·0	95	*·53*	5·7	93	*·47*	5·2	95	*·44*	4·8	98	*·44*	4·8	95	*·51*	5·5	*97*	*·36*	4·0	95	*·43*	4·7	98	*·44*	4·8	96	*·65*	7·0	98	*·46*	5·0	96
1886–1890 ..	*·30*	3·3	*88*	*·41*	4·5	*97*	*·45*	4·8	*93*	*·51*	5·5	94	*·46*	5·0	96	*·51*	5·6	91	*·47*	5·1	94	*·43*	4·7	96	*·43*	4·7	93	*·49*	5·3	*93*	*·36*	3·9	93	*·44*	4·8	99	*·43*	4·7	96	*·64*	6·9	98	*·45*	4·9	94
1891–1895 ..	*·31*	3·3	*96*	*·41*	4·5	*97*	*·47*	5·1	*93*	*·51*	5·6	95	*·47*	5·1	97	*·54*	5·9	96	*·48*	5·2	97	*·44*	4·8	99	*·42*	4·6	90	*·49*	5·4	*94*	*·37*	4·0	96	*·41*	4·4	92	*·43*	4·7	94	*·64*	7·0	98	*·46*	5·0	96
1896–1900 ..	*·39*	4·2	*113*	*·47*	5·1	*110*	*·51*	5·5	*106*	*·60*	6·5	111	*·53*	5·8	110	*·65*	7·0	115	*·55*	6·0	110	*·45*	4·9	100	*·51*	5·5	108	*·59*	6·4	*112*	*·41*	4·5	108	*·48*	5·2	109	*·49*	5·3	108	*·72*	7·8	110	*·52*	5·7	109
1901–1905 ..	*·37*	4·0	108	*·42*	4·5	98	*·51*	5·6	*107*	*·58*	6·3	108	*·49*	5·3	102	*·58*	6·3	103	*·52*	5·6	104	*·47*	5·2	105	*·51*	5·6	109	*·53*	5·8	*100*	*·39*	4·3	103	*·44*	4·8	100	*·47*	5·1	104	*·63*	6·9	97	*·50*	5·4	104
1906–1910 ..	*·37*	4·0	107	*·42*	4·5	98	*·47*	5·1	99	*·54*	5·8	100	*·48*	5·2	99	*·57*	6·2	101	*·50*	5·4	99	*·46*	5·0	102	*·49*	5·3	104	*·54*	5·9	103	*·41*	4·5	107	*·46*	5·0	103	*·47*	5·1	104	*·63*	6·8	97	*·48*	5·2	101
30 years average ..	**·34**	**3·7**	—	**·42**	**4·6**	—	**·48**	**5·2**	—	**·54**	**5·9**	—	**·48**	**5·2**	—	**·56**	**6·1**	—	**·50**	**5·4**	—	**·45**	**4·9**	—	**·47**	**5·1**	—	**·53**	**5·7**	—	**·38**	**4·2**	—	**·44**	**4·8**	—	**·45**	**4·9**	—	**·65**	**7·1**	—	**·48**	**5·2**	—
1911	·43	4·7	126	·53	5·8	125	·65	7·1	136	·76	8·3	141	·68	7·4	142	·85	9·2	150	·69	7·6	140	·57	6·2	126	·66	7·2	142	·73	7·9	139	·53	5·8	139	·60	6·5	135	·62	6·7	136	·83	9·0	127	·66	7·1	138
1912	·32	3·5	94	·27	2·9	63	·30	3·2	62	·40	4·4	75	·31	3·3	64	·41	4·4	73	·34	3·6	67	·36	4·0	81	·35	3·7	73	·36	3·9	64	·34	3·7	89	·35	3·8	79	·35	3·8	78	·45	4·9	70	·35	3·7	71
1913	·33	3·7	97	·36	4·0	86	·39	4·3	81	·42	4·6	77	·35	3·9	73	·44	4·8	77	·39	4·3	78	·46	5·0	101	·49	5·4	105	·49	5·4	93	·41	4·6	108	·44	4·9	100	·46	5·0	101	·56	6·2	86	·43	4·7	89

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
November, 1913.

W. N. SHAW,
Director.

(330—19.) Wt. 196—786. 450. 3/14 D & S. G. 17/37.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1913. FOURTH QUARTER (OCTOBER, NOVEMBER, DECEMBER).

Thirty-sixth Year.
VOL. XXX. [*New Series.*] } APPENDIX I.

A UNIFORMLY MILD QUARTER.

[*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-THREE YEARS, 1881–1913.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.		**Eastern Districts.**																**Western Districts.**																		**Districts 1-10 combined.**		
		0. Scotland, N.			**1.** Scotland, E.			**2.** England, N.E.			**3.** England, E.			**4.** Midland Counties.			**5.** England, S.E.			Districts **1-5.**			**6.** Scotland, W.			**7.** England, N.W. and North Wales.			**8.** South Wales and England, S.W.			**9.** Ireland, N.			**10.** Ireland, S.			Districts **6-10.**			**11.** English Channel.					
		Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
			In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
LUSTRA.*	1881-1885 ..	68	*16·2*	*96*	54	*9·3*	*191*	55	7·3	97	59	*8·3*	*120*	55	8·6	109	52	8·9	98	55	8·5	105	58	*14·5*	*96*	56	11·0	99	62	13·7	101	64	11·8	104	61	11·8	95	60	12·6	99	67	12·4	103	58	10·6	102
	1886-1890 ..	71	*16·6*	*99*	57	8·9	97	53	7·3	97	51	*6·1*	*88*	50	7·2	91	52	8·8	97	53	7·7	95	58	15·3	101	59	10·7	96	62	13·6	101	64	12·1	106	59	12·6	102	60	12·8	101	69	11·9	99	57	10·3	99
	1891-1895 ..	67	17·4	104	53	8·8	96	54	7·2	96	55	*7·7*	*113*	53	8·3	105	54	10·5	115	54	8·5	105	59	15·9	105	58	11·7	105	59	14·6	108	64	11·3	99	58	13·2	106	60	13·3	105	64	12·3	103	57	10·9	105
	1896-1900 ..	69	19·2	114	57	10·2	111	53	8·1	108	49	*5·9*	*86*	49	7·5	95	47	8·2	90	51	8·0	99	61	*15·4*	*102*	54	11·1	100	57	13·5	100	63	11·8	103	58	14·4	116	59	13·2	104	61	11·3	94	55	10·6	102
	1901-1905 ..	69	*15·8*	*94*	57	8·4	91	48	7·4	99	47	*5·7*	*83*	47	6·6	84	47	7·8	86	49	7·2	89	60	*14·7*	*97*	53	10·3	93	53	11·0	82	66	11·0	96	57	10·3	83	58	11·5	91	64	10·6	88	54	9·4	90
	1906-1910 ..	70	15·3	91	57	9·8	107	54	7·6	101	54	7·9	114	56	9·1	115	54	10·5	115	55	9·0	111	60	14·6	97	61	11·7	105	64	14·3	106	66	10·6	93	69	11·8	95	64	12·6	99	65	13·2	110	60	10·8	104
30 years average	..	**69**	**16·8**	—	**56**	**9·2**	—	**53**	**7·5**	—	**53**	**6·9**	—	**51**	**7·9**	—	**51**	**9·1**	—	**53**	**8·1**	—	**59**	**15·1**	—	**57**	**11·1**	—	**60**	**13·5**	—	**65**	**11·4**	—	**60**	**12·4**	—	**60**	**12·7**	—	**65**	**12·0**	—	**57**	**10·4**	—
1911	.. ..	64	15·7	93	64	13·0	141	66	8·7	116	62	9·7	141	64	10·1	128	62	15·4	169	63	11·4	141	61	17·4	115	63	13·2	119	69	17·5	130	61	13·9	122	72	17·1	138	65	15·8	124	72	17·4	145	64	13·6	131
1912	.. ..	79	22·1	133	61	11·0	120	54	7·7	103	57	8·4	122	48	8·8	111	53	10·9	120	55	9·4	116	67	15·3	101	60	12·4	112	58	14·7	109	65	11·8	104	69	10·6	85	64	13·0	102	67	13·3	111	60	11·2	108
1913	.. ..	71	20·5	122	52	6·7	73	47	5·5	73	50	6·1	88	50	7·2	91	47	8·6	94	50	6·8	84	67	13·5	90	59	9·6	87	60	12·3	91	65	11·8	104	67	12·8	103	63	12·0	95	63	11·9	99	56	9·4	90

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

		0. Scotland, N.		**1.** Scotland, E.		**2.** England, N.E.		**3.** England, E.		**4.** Midland Counties.		**5.** England, S.E.		Districts **1-5.**		**6.** Scotland, W.		**7.** England, N.W. and North Wales.		**8.** South Wales and England, S.W.		**9.** Ireland, N.		**10.** Ireland, S.		Districts **6-10.**		**11.** English Channel.		Districts **1-10** combined.	
		°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
LUSTRA.*	1881-1885 ..	*41·6*	- *0·8*	*41·8*	- *0·6*	43·4	- 0·2	43·4	- 0·6	43·0	- 0·2	45·1	- 0·5	43·2	- 0·4	*43·2*	- *0·7*	44·1	- 0·5	46·5	+ 0·3	43·9	- 0·7	45·6	- 0·5	44·7	- 0·4	49·1	- 0·7	44·0	- 0·4
	1886-1890 ..	*42·3*	- *0·1*	41·6	- 0·2	42·6	- 1·0	42·3	- 1·7	42·1	- 1·1	44·1	- 1·5	42·6	- 1·0	43·4	- 0·5	43·6	- 1·0	45·2	- 1·0	44·2	- 0·4	45·5	- 0·6	44·4	- 0·7	48·7	- 1·1	43·5	- 0·9
	1891-1895 ..	41·9	- 0·5	41·0	- 0·8	43·0	- 0·6	43·7	- 0·3	42·9	- 0·3	45·6	0·0	43·2	- 0·4	43·5	- 0·4	44·4	- 0·2	46·2	0·0	43·8	- 0·8	45·5	- 0·6	44·7	- 0·4	49·8	0·0	44·0	- 0·4
	1896-1900 ..	43·2	+ 0·8	42·7	+ 0·9	44·8	+ 1·2	44·9	+ 0·9	44·1	+ 0·9	46·9	+ 1·3	44·7	+ 1·1	44·9	+ 1·0	45·8	+ 1·2	47·2	+ 1·0	45·4	+ 0·8	47·1	+ 1·0	46·1	+ 1·0	51·0	+ 1·2	45·4	+ 1·0
	1901-1905 ..	*42·4*	*0·0*	41·7	- 0·1	43·4	- 0·2	43·7	- 0·3	42·7	- 0·5	45·0	- 0·6	43·3	- 0·3	43·8	- 0·1	44·2	- 0·4	45·5	- 0·7	44·7	+ 0·1	46·0	- 0·1	44·8	- 0·3	49·5	- 0·3	44·1	- 0·3
	1906-1910 ..	43·1	+ 0·7	42·7	+ 0·9	44·5	+ 0·9	45·7	+ 1·7	44·5	+ 1·3	46·6	+ 1·0	44·8	+ 1·2	44·3	+ 0·4	45·2	+ 0·6	46·8	+ 0·6	45·5	+ 0·9	46·6	+ 0·5	45·7	+ 0·6	50·5	+ 0·7	45·3	- 0·9
30 years average	..	**42·4**	—	**41·8**	—	**43·6**	—	**44·0**	—	**43 2**	—	**45·6**	—	**43·6**	—	**43·9**	—	**44·6**	—	**46·2**	—	**44·6**	—	**46·1**	—	**45·1**	—	**49·8**	—	**44·4**	—
1911	.. ..	42·3	- 0·1	41·6	- 0·2	44·3	+ 0·7	45·6	+ 1·6	44·4	+ 1·2	46·7	+ 1·1	44·5	+ 0·9	43·8	- 0·1	45·3	+ 0·7	47·0	+ 0·8	45·0	+ 0·4	46·0	+ 0·1	45·4	+ 0·3	50·2	+ 0·4	45·0	+ 0·6
1912	.. ..	42·6	+ 0·1	42·1	+ 0·3	44·2	+ 0·6	45·3	+ 1·3	44·4	+ 1·2	46·1	+ 0·5	44·4	+ 0·8	44·3	+ 0·4	45·6	+ 1·0	46·8	+ 0·6	45·7	+ 1·1	47·1	- 1·0	45·9	+ 0·8	50·1	+ 0·3	45·2	+ 0·8
1913	.. ..	44·7	+ 2·3	44·0	+ 2·2	45·9	+ 2·3	47·1	+ 3·1	46·1	+ 2·9	48·3	+ 2·7	46·3	+ 2·7	46·0	+ 2·1	47·3	+ 2·7	48·4	+ 2·2	46·9	+ 2·3	47·5	+ 1·4	47·2	+ 2·1	51·5	+ 1·7	46·8	+ 2·4

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1910.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, AND DAILY MEANS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—		**0.** Scotland, N.			**1.** Scotland, E.			**2.** England, N.E.			**3.** England, E.			**4.** Midland Counties.			**5.** England, S.E.			Districts **1-5.**			**6.** Scotland, W.			**7.** England, N.W. and North Wales.			**8.** South Wales and England, S.W.			**9.** Ireland, N.			**10.** Ireland, S.			Districts **6-10.**			**11.** English Channel.			Districts **1-10** combined.		
		Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.
				%			%			%			%			%			%			%			%			%			%			%			%			%			%			%
LUSTRA.*	1881-1885 ..	*·14*	1·5	*100*	*·18*	2·0	*106*	·18	1·9	*93*	·19	2·1	90	·18	1·9	98	·19	2·1	90	·18	2·0	96	·16	1·8	100	·15	1·6	87	*·19*	2·1	*91*	·18	2·0	96	·21	2·3	99	·18	1·9	94	·23	2·5	86	·18	2·0	95
	1886-1890 ..	*·12*	1·3	*84*	*·15*	1·6	*87*	*·19*	2·1	*100*	·21	2·3	102	·18	2·0	101	·20	2·2	95	·19	2·1	98	·15	1·7	96	·15	1·7	89	*·20*	2·2	*97*	·17	1·8	87	·20	2·2	95	·17	1·9	92	·27	2·9	103	·18	2·0	95
	1891-1895 ..	*·13*	1·4	*90*	*·18*	2·0	*108*	*·20*	2·1	*103*	·20	2·2	97	·19	2·1	106	·22	2·4	106	·20	2·2	105	·18	1·9	110	*·16*	1·8	*97*	*·22*	2·4	*104*	·21	2·2	108	·23	2·6	111	·20	2·2	103	·27	2·9	103	·20	2·2	105
	1896-1900 ..	*·14*	1·1	*99*	*·16*	1·8	*95*	*·18*	2·0	*97*	·23	2·5	110	·19	2·0	103	·24	2·6	113	·20	2·2	105	·16	1·8	100	·18	2·0	108	*·23*	2·4	*104*	·19	2·0	98	·23	2·5	110	·20	2·1	103	·26	2·8	99	·20	2·2	105
	1901-1905 ..	·14	1·5	97	·17	1·9	102	*·19*	2·1	*103*	·21	2·3	100	·17	1·8	93	·20	2·2	97	·19	2·1	101	·16	1·8	101	·18	2·0	*97*	·18	2·0	94	·20	2·2	95	·18	2·0	97	·24	2·6	93	·19	2·1	99
	1906-1910 ..	·14	1·6	103	·19	2·0	111	·20	2·1	103	·21	2·3	100	·18	2·0	101	·23	2·5	110	·20	2·2	105	·16	1·7	99	·20	2·2	116	·22	2·4	107	·19	2·1	102	·20	2·2	97	·19	2·1	103	·26	2·9	102	·20	2·2	105
30 years average	..	**·14**	**1·5**	—	**·17**	**·19**	—	**·19**	**2·1**	—	**·21**	**2·3**	—	**·18**	**2·0**	—	**·21**	**2·3**	—	**·19**	**2·1**	—	**·16**	**1·8**	—	**·17**	**1·9**	—	**·21**	**2·3**	—	**·19**	**2·0**	—	**·21**	**2·3**	—	**·19**	**2·0**	—	**·26**	**2·8**	—	**·19**	**2·1**	—
1911	.. ..	·14	1·5	101	·17	1·8	99	·19	2·0	98	·20	2·2	95	·19	2·1	104	·21	2·3	101	·19	2·1	101	·17	1·8	106	·20	2·1	115	·23	2·5	111	·19	2·0	98	·21	2·3	99	·20	2·2	105	·23	2·5	88	·20	2·1	103
1912	.. ..	·11	1·2	79	·17	1·8	99	·18	1·9	93	·20	2·2	97	·18	2·0	101	·24	2·6	112	·19	2·1	102	·14	1·5	89	·18	2·0	106	·22	2·4	104	·17	1·8	87	·22	2·4	106	·19	2·0	98	·27	2·9	103	·19	2·1	100
1913	.. ..	·15	1·5	110	·21	2·1	121	·23	2·3	119	·27	2·7	127	·20	2·0	111	·26	2·6	120	·23	2·4	120	·18	1·8	110	·20	2·0	113	·23	2·3	110	·19	2·0	105	·21	2·1	97	·20	2·1	107	·27	2·8	107	·22	2·2	114

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

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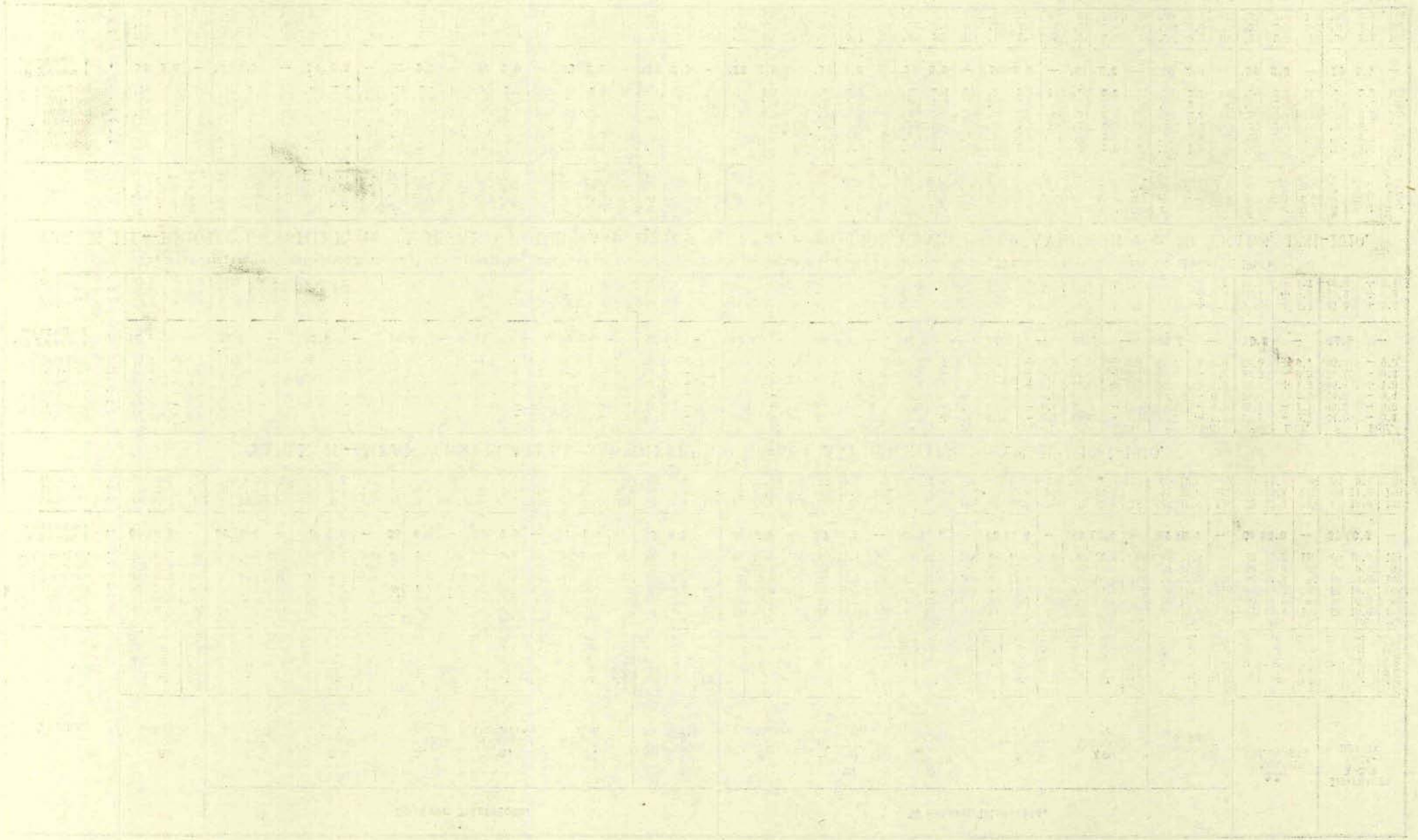
Meteorological Office, South Kensington, London, S.W.
4th February, 1914.

W. N. SHAW,
Director.



(871—19.) Wt. 196—786. 450. 4/14. D & S. G. 17/37.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1913.

Thirty-sixth Year. Vol. XXX. [*New Series.*] } APPENDIX I.

VALUES FOR THE WHOLE YEAR, 1913.

[*Price 4d.*

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TABLE I.—RAINFALL.—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.		0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
		Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
			In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
LUSTRA.*	1881-1885 ..	241	*49·2*	*96*	198	*33·3*	*107*	188	25·5	103	187	*26·0*	*110*	186	29·0	109	177	27·4	101	187	28·2	106	216	*50·6*	*105*	198	36·6	104	211	40·7	105	236	38·6	101	217	41·7	104	216	41·6	104	222	33·8	104	202	34·9	104
	1886-1890 ..	251	*50·3*	*97*	203	29·0	93	187	24·9	101	184	*22·6*	*96*	176	25·6	97	177	26·8	99	185	25·8	97	206	45·5	94	196	35·1	91	191	38·4	99	225	36·2	94	200	39·1	98	204	38·9	97	200	33·0	102	194	32·7	98
	1891-1895 ..	244	52·7	101	196	30·4	98	190	24·8	100	184	*24·0*	*102*	178	25·2	95	174	27·6	101	184	26·4	99	206	45·5	94	196	35·1	91	191	38·4	99	225	36·2	94	200	39·1	98	204	38·9	97	200	33·0	102	194	32·7	98
	1896-1900 ..	248	55·8	107	209	31·9	103	183	25·0	101	173	*22·0*	*93*	172	25·7	97	161	25·3	93	180	26·0	98	225	*49·0*	*101*	198	36·1	102	194	39·2	101	235	39·6	103	206	43·0	108	212	41·3	103	204	31·5	97	196	33·7	101
	1901-1905 ..	255	53·4	103	213	29·9	96	177	23·5	95	170	*22·4*	*95*	175	28·0	98	174	27·5	101	182	25·9	98	218	*50·3*	*104*	202	33·0	94	194	37·4	96	247	39·2	102	215	39·0	98	215	39·7	99	219	32·9	102	199	32·8	98
	1906-1910 ..	257	50·6	97	210	32·3	104	192	24·4	99	186	*24·3*	*103*	189	27·5	104	182	28·6	105	192	27·4	103	217	48·4	100	213	37·5	106	208	39·6	102	244	38·9	102	240	37·9	95	224	40·5	101	201	31·5	97	208	34·0	102
30 years average	..	**249**	**52·0**	**—**	**205**	**31·1**	**—**	**186**	**24·7**	**—**	**181**	**23·6**	**—**	**180**	**26·5**	**—**	**174**	**27·2**	**—**	**185**	**26·6**	**—**	**214**	**48·3**	**—**	**201**	**35·3**	**—**	**200**	**38·8**	**—**	**235**	**38·4**	**—**	**213**	**39·9**	**—**	**213**	**40·1**	**—**	**211**	**32·4**	**—**	**199**	**33·4**	**—**
1911	.. ..	227	51·3	99	200	29·4	95	180	23·6	96	175	23·1	98	162	22·0	83	159	28·1	103	175	25·2	95	201	44·3	92	182	34·3	97	179	36·8	95	195	33·5	87	212	39·5	99	194	37·7	94	186	33·8	104	185	31·5	94
1912	.. ..	250	55·2	106	216	33·6	108	207	31·1	126	199	29·7	126	189	34·6	121	194	32·7	120	200	32·4	122	223	47·3	98	214	39·6	112	218	48·2	124	240	39·7	103	249	42·4	110	229	43·4	108	226	41·4	128	214	37·9	114
1913	.. ..	236	51·6	100	195	26·8	86	180	22·0	90	176	21·1	90	178	26·4	100	169	27·1	100	180	24·7	93	217	43·1	89	203	34·5	98	204	39·7	102	235	39·4	102	237	44·3	111	219	40·2	100	203	32·2	100	200	32·4	97

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

		°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
LUSTRA.*	1881-1885 ..	*45·3*	*- 0·2*	*45·6*	*- 0·1*	47·3	- 0·1	48·3	0·0	48·0	+ 0·1	49·6	+ 0·1	47·8	0·0	*47·1*	*- 0·2*	48·0	- 0·2	49·5	+ 0·1	47·8	- 0·2	49·2	- 0·3	48·3	- 0·2	51·4	- 0·5	48·1	- 0·1
	1886-1890 ..	*45·2*	*- 0·3*	45·6	- 0·1	46·6	- 0·8	47·2	- 1·1	47·1	- 0·8	48·6	- 0·9	47·0	- 0·8	46·9	- 0·4	47·4	- 0·8	48·7	- 0·7	47·7	- 0·3	49·1	- 0·4	48·0	- 0·5	51·0	- 0·9	47·5	- 0·7
	1891-1895 ..	45·3	- 0·2	45·4	- 0·3	46·9	- 0·5	47·9	- 0·4	47·7	- 0·2	49·4	- 0·1	47·5	- 0·3	47·1	- 0·2	48·2	0·0	49·3	- 0·1	47·9	- 0·1	49·3	- 0·2	48·4	- 0·1	52·0	+ 0·1	48·0	- 0·2
	1896-1900 ..	46·1	+ 0·6	46·4	+ 0·7	48·1	+ 0·7	49·1	+ 0·8	48·8	+ 0·9	5·8	+ 1·3	48·6	+ 0·8	48·1	+ 0·8	49·2	+ 1·0	50·6	+ 1·2	48·7	+ 0·7	50·4*	+ 0·9	49·4	+ 0·9	53·3	+ 1·4	49·0	+ 0·8
	1901-1905 ..	*45·6*	*+ 0·1*	45·7	0·0	47·6	+ 0·2	48·7	+ 0·4	47·9	0·0	49·5	0·0	47·9	+ 0·1	47·4	- 0·1	48·0	0·0	49·5	+ 1·1	48·0	0·0	49·6	+ 0·1	48·5	0·0	51·9	0·0	48·2	0·0
	1906-1910 ..	45·5	0·0	45·7	0·0	47·6	+ 0·2	48·7	+ 0·4	48·0	+ 0·1	49·3	- 0·2	47·9	+ 0·1	47·4	- 0·1	48·0	- 0·2	49·1	- 0·3	48·1	+ 0·1	49·6	+ 0·1	48·4	- 0·1	52·0	+ 0·1	48·2	0·0
30 years average	..	**45·5**	**—**	**45·7**	**—**	**47·4**	**—**	**48·3**	**—**	**47·9**	**—**	**49·5**	**—**	**47·8**	**—**	**47·3**	**—**	**48·2**	**—**	**49·4**	**—**	**48·0**	**—**	**49·5**	**—**	**48·5**	**—**	**51·9**	**—**	**48·2**	**—**
1911	.. ..	46·5	+ 1·0	46·7	+ 1·0	49·0	+ 1·6	50·4	+ 2·1	49·7	+ 1·8	51·0	+ 1·5	48·9	+ 1·1	48·4	+ 1·1	49·8	+ 1·6	50·8	+ 1·4	48·9	+ 0·9	50·3	+ 0·8	49·6	+ 1·1	53·1	+ 1·2	49·3	+ 1·1
1912	.. ..	45·6	+ 0·1	45·7	0·0	47·6	+ 0·2	49·5	+ 1·2	48·3	+ 0·4	50·0	+ 0·5	48·2	+ 0·4	47·4	+ 0·1	48·4	+ 0·2	49·7	+ 0·3	48·0	0·0	49·6	+ 0·1	48·6	+ 0·1	52·4	+ 0·5	48·4	+ 0·2
1913	.. ..	46·5	+ 1·0	46·4	+ 0·7	48·3	+ 0·9	49·8	+ 1·5	49·0	+ 1·1	50·7	+ 1·2	48·8	+ 1·0	48·0	+ 0·7	49·2	+ 1·0	50·4	+ 1·0	48·4	+ 0·4	49·7	+ 0·2	49·1	+ 0·6	52·6	+ 0·7	49·0	+ 0·8

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1911.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, AND DAILY MEANS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—		Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.
LUSTRA.*	1881-1885 ..	*1·08*	3·0	97	*1·33*	3·6	*100*	*1·41*	3·8	*98*	1·54	4·2	97	1·39	3·8	99	*1·54*	4·2	*95*	1·44	3·9	97	1·33	3·6	98	1·32	3·6	94	*1·51*	4·1	*96*	1·26	3·5	98	1·45	4·0	101	1·37	3·8	98	1·89	5·2	100	1·41	3·8	97
	1886-1890 ..	*0·99*	2·7	*89*	*1·28*	3·5	*97*	*1·35*	3·7	*94*	1·48	4·1	94	1·32	3·6	94	1·45	4·0	90	1·38	3·8	93	1·32	3·6	97	1·29	3·5	91	*1·48*	4·0	*94*	1·20	3·3	94	1·43	3·9	99	1·34	3·7	95	1·84	5·0	97	1·36	3·7	94
	1891-1895 ..	*1·15*	3·1	*103*	*1·40*	3·9	*106*	*1·52*	4·2	*106*	1·59	4·4	101	1·49	4·1	106	1·70	4·6	105	1·54	4·2	104	1·42	3·9	104	*1·38*	3·8	*98*	*1·64*	4·5	*104*	1·33	3·6	104	1·47	4·0	102	1·45	4·0	103	2·02	5·5	107	1·50	4·1	103
	1896-1900 ..	*1·17*	3·2	*106*	*1·35*	3·7	*102*	*1·44*	3·9	*100*	1·64	4·5	104	1·46	4·0	104	1·71	4·7	106	1·52	4·2	103	1·34	3·7	99	1·48	4·0	105	*1·65*	4·5	*105*	1·31	3·6	102	1·49	4·1	103	1·45	4·0	103	1·94	5·3	103	1·49	4·0	103
	1901-1905 ..	1·15	3·1	103	1·28	3·5	96	*1·49*	4·1	*103*	1·63	4·4	103	1·37	3·7	97	*1·60*	4·4	*99*	1·47	4·0	100	1·38	3·8	101	1·49	4·0	106	*1·52*	4·2	*97*	1·29	3·5	101	1·40	3·8	97	1·42	3·9	101	1·80	4·9	95	1·45	4·0	100
	1906-1910 ..	1·14	3·1	103	1·34	3·7	101	1·45	4·0	101	1·61	4·4	102	1·43	3·9	101	1·70	4·7	105	1·51	4·1	102	1·36	3·7	100	1·47	4·0	104	1·62	4·4	103	1·29	3·5	101	1·42	3·9	99	1·43	3·9	101	1·87	5·1	99	1·47	3·9	101
30 years average	..	**1·11**	**3·0**	**—**	**1·33**	**3·6**	**—**	**1·44**	**4·0**	**—**	**1·58**	**4·3**	**—**	**1·41**	**3·8**	**—**	**1·62**	**4·4**	**—**	**1·48**	**4·0**	**—**	**1·36**	**3·7**	**—**	**1·41**	**3·8**	**—**	**1·57**	**4·3**	**—**	**1·28**	**3·5**	**—**	**1·44**	**4·0**	**—**	**1·41**	**3·9**	**—**	**1·89**	**5·2**	**—**	**1·45**	**4·0**	**—**
1911	.. ..	1·26	3·4	113	1·48	4·0	111	1·60	4·4	111	1·80	4·9	114	1·59	4·3	113	1·93	5·3	119	1·68	4·6	114	1·54	4·2	113	1·68	4·6	119	1·84	5·0	117	1·52	4·2	119	1·63	4·4	113	1·64	4·5	116	2·03	5·5	107	1·66	4·5	115
1912	.. ..	1·01	2·8	91	1·02	2·9	77	1·12	3·1	78	1·38	3·8	87	1·13	3·2	80	1·44	4·2	89	1·22	3·4	82	1·15	3·2	85	1·21	3·3	91	1·26	3·5	80	1·11	3·1	87	1·26	3·5	88	1·20	3·3	85	1·61	4·5	85	1·21	3·3	83
1913	.. ..	1·02	2·8	91	1·22	3·3	91	1·29	3·5	88	1·43	3·9	91	1·19	3·2	85	1·47	4·0	91	1·32	3·6	91	1·22	3·3	89	1·32	3·7	94	1·42	3·9	90	1·20	3·3	94	1·31	3·6	91	1·29	3·5	92	1·63	4·5	87	1·31	3·6	92

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
1*st April*, 1914.

W. N. SHAW,
Director.

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FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1913.

Thirty-sixth Year. VOL. XXX. [*New Series.*] } APPENDIX II.] { RAIN-DAYS, RAINFALL, ACCUMULATED TEMPERATURE AND SUNSHINE. [*Price* 1*s.*

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF RAIN-DAYS IN EACH DISTRICT DURING THE YEAR 1913.

1913.		0. Scotland, N.		Eastern Districts.												Western Districts.												11. English Channel.		Means for Districts 1-10 combined.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts							
	Weeks.																														
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.
	Numbers of Rain-days—1913.																														
1	**1913.** Dec. 29-Jan. 4	6	6	4	4	3	3	4	4	4	4	4	4	4	4	5	5	5	5	6	6	6	6	6	6	6	6	6	6	5	5
2	Jan. 5-11 -	4	10	3	7	3	6	3	7	4	8	3	7	3	7	5	10	4	9	5	11	6	12	6	12	5	11	5	11	4	9
3	12-18 -	3	13	4	11	5	11	6	13	5	13	5	12	5	12	5	15	4	13	7	18	5	17	6	18	5	16	7	18	5	14
4	19-25 -	4	17	5	16	6	17	5	18	5	18	4	16	5	17	4	19	5	18	5	23	6	23	6	24	5	21	6	24	5	19
5	Jan. 26-Feb. 1	6	23	5	21	4	21	4	22	4	22	5	21	4	21	4	23	4	22	6	29	6	29	6	30	5	26	6	30	4	23
6	Feb. 2-8 -	7	30	7	28	5	26	3	25	5	27	4	25	5	26	7	30	7	29	6	35	7	36	7	37	7	33	4	34	6	29
7	9-15 -	6	36	3	31	4	30	4	29	3	30	2	27	3	29	3	33	2	31	3	38	2	38	2	39	3	36	2	36	2	31
8	16-22 -	3	39	3	34	2	32	1	30	1	31	1	28	2	31	0	33	1	32	0	38	0	38	0	39	0	36	1	37	1	32
9	Feb. 23-Mar. 1	4	43	3	37	3	35	3	33	3	34	2	30	3	34	5	38	3	35	3	41	4	42	5	44	4	40	3	40	4	36
10	Mar. 2-8 -	7	50	6	43	5	40	3	36	4	38	5	35	5	39	7	45	7	42	5	46	7	49	7	51	7	47	5	45	6	42
11	9-15 -	7	57	6	49	4	44	4	40	4	42	4	39	4	43	7	52	6	48	5	51	7	56	6	57	6	53	2	47	5	47
12	16-22 -	6	63	6	55	6	50	7	47	7	49	7	46	7	50	5	57	7	55	7	58	6	62	6	63	6	59	7	54	7	54
13	23-29 -	3	66	4	59	5	55	5	52	4	53	4	50	4	54	2	59	3	58	4	62	2	64	4	67	3	62	4	58	4	58
14	Mar. 30-Apr. 5	2	68	2	61	2	57	2	54	3	56	4	54	3	57	3	62	2	60	4	66	4	68	4	71	3	65	4	62	3	61
15	April 6-12 -	3	71	4	65	4	61	4	58	3	59	3	57	3	60	3	65	3	63	2	68	3	71	2	73	3	68	1	63	3	64
16	13-19 -	6	77	5	70	5	66	6	64	6	65	5	62	5	65	7	72	6	69	5	73	7	78	7	80	6	74	6	69	6	70
17	20-26 -	4	81	4	74	4	70	3	67	5	70	5	67	4	69	4	76	4	73	6	79	5	83	6	86	5	79	5	74	5	75
18	April 27-May 3	5	86	4	78	4	74	5	72	5	75	4	71	4	73	5	81	5	78	6	85	6	89	7	93	6	85	6	80	5	80
19	May 4-10 -	5	91	5	83	5	79	5	77	6	81	5	76	5	78	6	87	7	85	6	91	6	95	7	100	7	92	6	86	6	86
20	11-17 -	3	94	2	85	1	80	1	78	2	83	2	78	2	80	3	90	3	88	3	94	4	99	3	103	3	95	4	90	2	88
21	18-24 -	6	100	5	90	3	83	1	79	2	85	2	80	3	83	6	96	5	93	3	97	6	105	5	108	5	100	3	93	4	92
22	May 25-31 -	6	106	2	92	3	86	2	81	2	87	2	82	2	85	4	100	3	96	3	100	5	110	4	112	4	104	2	95	3	95
23	June 1-7 -	6	112	4	96	4	90	2	83	3	90	3	85	3	88	5	105	4	100	4	104	5	115	6	118	5	109	4	99	4	99
24	8-14 -	5	117	3	99	3	93	3	86	3	93	1	86	3	91	5	110	4	104	4	108	5	120	4	122	4	113	3	102	4	103
25	15-21 -	2	119	3	102	2	95	1	87	2	95	1	87	2	93	3	113	3	107	2	110	3	123	4	126	3	116	3	105	2	105
26	22-28 -	4	123	5	107	4	99	3	90	2	97	1	88	3	96	4	117	3	110	2	112	4	127	3	129	3	119	2	107	3	108
27	June 29-July 5	2	125	2	109	3	102	3	93	2	99	3	91	3	99	1	118	2	112	1	113	2	129	1	130	1	120	2	109	2	110
28	July 6-12 -	3	128	3	112	3	105	3	96	3	102	4	95	3	102	4	122	4	116	3	116	5	134	4	134	4	124	3	112	3	113
29	13-19 -	5	133	3	115	2	107	5	101	4	106	4	99	4	106	4	126	4	120	3	119	5	139	5	139	4	128	2	114	4	117
30	20-26 -	1	134	1	116	2	109	3	104	1	107	1	100	1	107	2	128	2	122	1	120	2	141	1	140	2	130	1	115	2	119
31	July 27-Aug. 2	1	135	0	116	0	109	0	104	0	107	0	100	0	107	0	128	0	122	1	121	0	141	1	141	1	131	2	117	0	119
32	Aug. 3-9 -	3	138	3	119	2	111	1	105	1	108	1	101	2	109	1	129	2	124	1	122	1	142	2	143	1	132	2	119	2	121
33	10-16 -	3	141	3	122	2	113	3	108	3	111	3	104	3	112	3	132	4	128	3	125	5	147	4	147	4	136	4	123	3	124
34	17-23 -	4	145	3	125	3	116	3	111	2	113	2	106	2	114	4	136	3	131	3	128	4	151	3	150	3	139	2	125	3	127
35	Aug. 24-30 -	4	149	4	129	2	118	2	113	2	115	3	109	3	117	2	138	2	133	2	130	1	152	2	152	2	141	3	128	2	129
36	31-Sept. 6	1	150	1	130	4	122	5	118	4	119	5	114	4	121	0	138	0	133	4	134	1	153	1	153	1	142	2	130	3	132
37	Sept. 7-13 -	6	156	5	135	3	125	1	119	2	121	2	116	2	123	5	143	4	137	3	137	6	159	5	158	5	147	3	133	3	135
38	14-20 -	4	160	4	139	4	129	5	124	4	125	5	121	4	127	2	145	3	140	4	141	5	164	5	163	4	151	5	138	4	139
39	21-27 -	5	165	4	143	4	133	2	126	3	128	1	122	3	130	5	150	4	144	3	144	6	170	7	170	5	156	2	140	4	143
40	Sept. 28-Oct. 4	1	166	1	144	3	136	3	129	3	131	3	125	3	133	1	151	1	145	3	147	2	172	3	173	2	158	5	145	3	146
41	Oct. 5-11 -	2	168	5	149	5	141	5	134	5	136	5	130	5	138	3	154	5	150	5	152	3	175	5	178	4	162	6	151	4	150
42	12-18 -	5	173	3	152	2	143	3	137	2	138	1	131	2	140	4	158	2	152	1	153	4	179	4	182	3	165	2	153	3	153
43	19-25 -	6	179	4	156	3	146	3	140	2	140	2	133	3	143	5	163	4	156	4	157	4	183	4	186	4	169	3	156	3	156
44	Oct. 26-Nov. 1	7	186	5	161	5	151	5	145	6	146	6	139	5	148	7	170	6	162	6	163	6	189	7	193	6	175	6	162	6	162
45	Nov. 2-8 -	4	190	5	166	4	155	5	150	5	151	5	144	5	153	5	175	6	168	6	169	6	195	6	199	6	181	5	167	5	167
46	9-15 -	6	196	5	171	6	161	7	157	7	158	6	150	6	159	7	182	7	175	7	176	7	202	7	206	7	188	7	174	7	174
47	16-22 -	7	203	4	175	4	165	3	160	4	162	4	154	4	163	6	188	6	181	5	181	6	208	6	212	6	194	4	178	5	179
48	Nov. 23-29 -	6	209	3	178	4	169	2	162	2	164	2	156	3	166	6	194	5	186	4	185	5	213	5	217	5	199	5	183	4	183
49	30-Dec. 6	6	215	4	182	2	171	4	166	5	169	5	161	4	170	6	200	5	191	6	191	6	219	6	223	6	205	6	189	5	188
50	Dec. 7-13 -	6	221	3	185	1	172	1	167	2	171	2	163	2	172	6	206	4	195	4	195	5	224	5	228	5	210	4	193	3	191
51	14-20 -	4	225	2	187	2	174	3	170	1	172	1	164	2	174	2	208	2	197	2	197	3	227	2	230	2	212	1	194	2	193
52	21-27 -	6	231	5	192	3	177	3	173	3	175	3	167	3	177	6	214	4	201	4	201	4	231	4	234	4	216	4	198	3	196
53	Dec. 28-Jan. 3	5	236	3	195	3	180	3	176	3	178	2	169	3	180	3	217	2	203	3	204	4	235	3	237	3	219	5	203	3	199

(940—19.) Wt. 196—786. 450. 4/14. D & S. G. 17/ 38.

TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF **RAINFALL** IN EACH DISTRICT DURING THE YEAR 1913.

1913.		0. Scotland, N.		Eastern Districts.										Western Districts.												11. English Channel.		Means for Districts 1-10 combined.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.					
Weeks.																													
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.
	RAINFALL IN INCHES—1913.																												
	1913.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	Dec. 29-Jan. 4	2·07	2·07	0·44	0·44	0·35	0·35	0·25	0·25	0·81	0·81	0·44	0·44	0·46	0·46	1·42	1·42	0·86	0·86	1·26	1·26	0·79	0·79	0·80	0·80	1·03	1·03	0·58	0·58	0·75	0·75
2	Jan. 5-11 -	0·53	2·60	0·63	1·07	0·97	1·32	0·71	0·96	1·00	1·81	0·81	1·25	0·82	1·28	1·24	2·66	0·94	1·80	1·49	2·75	1·55	2·34	2·32	3·12	1·51	2·54	1·07	1·65	1·16	1·91
3	12-18 -	0·31	2·91	0·56	1·63	0·58	1·90	0·53	1·49	0·36	2·17	0·96	2·21	0·60	1·88	1·06	3·72	0·35	2·15	1·19	3·94	0·75	3·09	1·51	4·63	0·97	3·51	1·56	3·21	0·79	2·70
4	19-25 -	0·36	3·27	0·73	2·36	0·64	2·54	0·57	2·06	0·89	3·06	0·93	3·14	0·75	2·63	1·21	4·93	1·16	3·31	1·69	5·63	1·32	4·41	1·54	6·17	1·38	4·89	0·93	4·14	1·06	3·76
5	Jan. 26-Feb. 1	1·77	5·04	0·84	3·20	0·60	3·14	0·86	2·92	0·71	3·77	1·05	4·19	0·81	3·44	1·40	6·33	0·85	4·16	1·34	6·97	1·02	5·43	1·36	7·53	1·19	6·08	1·80	5·94	1·00	4·76
6	Feb. 2-8 -	3·31	8·35	1·10	4·30	0·29	3·43	0·25	3·17	0·53	4·30	0·45	4·64	0·52	3·96	1·71	8·04	1·22	5·38	0·97	7·94	1·19	6·62	1·02	8·55	1·23	7·31	0·48	6·42	0·88	5·64
7	9-15 -	0·26	8·61	0·19	4·49	0·21	3·64	0·18	3·35	0·30	4·60	0·15	4·79	0·21	4·17	0·36	8·40	0·33	5·71	0·18	8·12	0·18	6·80	0·19	8·74	0·25	7·56	0·05	6·47	0·23	5·87
8	16-22 -	0·10	8·71	0·09	4·58	0·05	3·69	0·02	3·37	0·02	4·62	0·04	4·83	0·04	4·22	0·00	8·40	0·01	5·72	0·00	8·12	0·00	6·80	0·00	8·74	0·00	7·56	0·04	6·51	0·02	5·89
9	Feb. 23-Mar. 1	0·57	9·28	0·23	4·86	0·19	3·88	0·18	3·55	0·17	4·79	0·13	4·96	0·19	4·41	0·51	8·94	0·16	5·88	0·39	8·51	0·48	7·28	1·05	9·79	0·52	8·08	0·21	6·72	0·36	6·25
10	Mar. 2-8 -	2·03	11·36	0·99	5·85	0·32	4·20	0·24	3·79	0·36	5·15	0·26	5·22	0·43	4·84	1·47	10·41	1·18	7·06	0·50	9·01	1·31	8·59	1·31	11·10	1·15	9·23	0·78	7·50	0·79	7·04
11	9-15 -	2·10	13·46	0·64	6·49	0·50	4·70	0·33	4·12	0·88	6·03	0·46	5·68	0·56	5·40	1·16	11·57	1·23	8·26	1·23	10·24	1·10	9·69	0·85	11·95	1·11	10·34	0·31	7·81	0·83	7·87
12	16-22 -	1·37	14·83	1·28	7·77	1·05	5·75	0·93	5·05	1·54	7·57	1·20	6·88	1·20	6·60	1·43	13·00	1·42	9·68	1·95	12·19	1·00	10·69	1·09	13·04	1·38	11·72	1·34	9·15	1·29	9·16
13	23-29 -	0·27	15·10	0·68	8·45	0·57	6·32	0·40	5·45	0·65	8·22	0·64	7·52	0·59	7·19	0·27	13·27	0·34	10·02	0·72	12·91	0·22	10·91	0·66	13·70	0·44	12·16	0·42	9·57	0·52	9·68
14	Mar. 30-Apr. 5	0·13	15·23	0·16	8·61	0·21	6·53	0·32	5·77	0·24	8·46	0·47	7·99	0·28	7·47	0·20	13·47	0·20	10·22	0·49	13·40	0·33	11·24	0·58	14·28	0·36	12·52	0·38	9·95	0·32	10·00
15	April 6-12 -	0·45	15·68	0·41	9·02	0·54	7·07	0·64	6·41	0·51	8·97	0·44	8·43	0·51	7·98	0·54	14·01	0·43	10·65	0·18	13·58	0·32	11·56	0·06	14·34	0·31	12·83	0·03	9·98	0·41	10·41
16	13-19 -	1·75	17·43	0·67	9·69	0·45	7·52	0·55	6·96	0·87	9·84	0·67	9·10	0·64	8·62	1·38	15·39	1·18	11·83	1·45	15·03	1·20	12·76	0·87	15·31	1·23	14·06	1·02	11·00	0·93	11·34
17	20-26 -	0·45	17·88	0·38	10·07	0·33	7·85	0·22	7·18	0·58	10·42	0·68	9·78	0·44	9·06	0·87	16·26	0·93	12·76	1·60	16·63	1·13	13·89	1·92	17·23	1·29	15·35	1·01	12·01	0·87	12·21
18	April 27-May 3	0·82	18·70	0·95	11·02	1·25	9·10	0·96	8·14	1·78	12·20	1·01	10·79	1·19	10·25	1·23	17·49	1·81	14·37	1·48	18·11	1·40	15·29	1·63	18·86	1·47	16·82	1·01	13·02	1·33	13·54
19	May 4-10 -	0·60	19·30	1·48	12·50	1·56	10·66	0·62	8·76	1·01	13·21	0·79	11·58	1·09	11·34	1·75	19·24	0·95	15·32	1·38	19·49	1·48	16·77	1·98	20·84	1·51	18·33	0·98	14·00	1·30	14·84
20	11-17 -	0·62	19·92	0·23	12·73	0·03	10·69	0·03	8·79	0·23	13·44	0·23	11·81	0·15	11·49	0·37	19·61	0·24	15·56	0·47	19·96	0·20	16·97	0·44	21·28	0·35	18·68	0·62	14·62	0·25	15·09
21	18-24 -	1·17	21·09	0·29	13·02	0·19	10·88	0·04	8·83	0·12	13·56	0·06	11·87	0·14	11·63	0·95	20·56	0·52	16·08	0·24	20·20	0·58	17·55	0·40	21·68	0·54	19·22	0·07	14·69	0·34	15·43
22	25-31 -	0·60	21·69	0·21	13·23	0·41	11·29	0·53	9·36	0·23	13·79	0·41	12·28	0·36	11·99	0·39	20·95	0·21	16·29	0·28	20·48	0·62	18·17	0·73	22·41	0·41	19·66	0·14	14·83	0·40	15·83
23	June 1-7 -	1·54	23·23	0·70	13·93	0·43	11·72	0·18	9·54	0·34	14·13	0·22	12·50	0·37	12·36	0·91	21·86	0·78	17·07	0·77	21·25	0·79	18·96	1·13	23·54	0·90	20·54	0·39	15·22	0·63	16·45
24	8-14 -	1·73	24·96	0·35	14·28	0·16	11·88	0·27	9·81	0·33	14·46	0·04	12·54	0·23	12·59	1·07	22·93	0·95	18·02	0·44	21·69	0·78	19·74	0·64	24·18	0·77	21·31	0·12	15·34	0·50	16·95
25	15-21 -	0·32	25·28	0·60	14·88	0·14	12·02	0·23	10·04	0·16	14·62	0·24	12·78	0·28	12·87	0·44	23·37	0·23	18·28	0·10	21·79	1·13	20·87	0·81	24·99	0·55	21·86	0·28	15·62	0·42	17·37
26	22-28 -	0·63	25·91	0·52	15·40	0·41	12·43	0·22	10·26	0·13	14·75	0·11	12·89	0·28	13·15	0·51	23·88	0·41	18·69	0·23	22·02	0·67	21·54	0·35	25·34	0·43	22·29	0·11	15·73	0·35	17·72
27	June 29-July 5	0·24	26·15	0·27	15·67	0·20	12·63	0·25	10·51	0·12	14·87	0·22	13·11	0·21	13·36	0·06	23·94	0·15	18·84	0·05	22·07	0·09	21·63	0·02	25·36	0·08	22·37	0·04	15·77	0·15	17·87
28	July 6-12 -	0·23	26·38	0·30	15·97	0·22	12·85	0·18	10·69	0·47	15·34	0·49	13·60	0·33	13·69	0·47	24·41	0·83	19·67	0·25	22·32	0·46	22·09	0·34	25·70	0·47	22·84	0·32	16·09	0·40	18·27
29	13-19 -	0·57	26·95	0·22	16·19	0·17	13·02	0·09	11·68	0·17	15·51	0·78	14·38	0·47	14·16	0·44	24·85	0·31	19·98	0·19	22·51	0·49	22·58	0·27	25·97	0·34	23·18	0·02	16·11	0·40	18·67
30	20-26 -	0·01	26·96	0·02	16·21	0·13	13·15	0·42	12·10	0·09	15·60	0·05	14·43	0·14	14·30	0·27	25·12	0·23	20·21	0·07	22·58	0·30	22·88	0·05	26·02	0·18	23·36	0·01	16·12	0·16	18·83
31	July 27-Aug. 2	0·03	26·99	0·00	16·21	0·00	13·15	0·00	12·10	0·00	15·60	0·00	14·43	0·00	14·30	0·00	25·12	0·00	20·21	0·03	22·61	0·00	22·88	0·01	26·03	0·01	23·37	0·78	16·90	0·01	18·84
32	Aug. 3-9 -	0·11	27·10	0·12	16·33	0·20	13·35	0·16	12·26	0·21	15·81	0·19	14·62	0·17	14·47	0·03	25·15	0·42	20·63	0·27	22·88	0·11	22·99	0·12	26·15	0·19	23·56	0·20	17·10	0·18	19·02
33	10-16 -	0·23	27·33	0·16	16·49	0·11	13·46	0·36	12·62	0·25	16·06	0·11	14·73	0·20	14·67	0·19	25·34	0·38	21·01	0·34	23·22	0·40	23·39	0·52	26·67	0·37	23·93	0·56	17·66	0·28	19·30
34	17-23 -	1·04	28·37	0·36	16·85	0·58	14·02	0·21	12·83	0·50	16·56	0·11	14·84	0·35	15·02	1·13	26·47	1·18	22·19	0·37	23·59	0·75	24·14	0·57	27·24	0·80	24·73	0·26	17·92	0·58	19·88
35	Aug. 24-30 -	0·34	28·71	0·53	17·38	0·30	14·32	0·18	13·01	0·37	16·93	0·39	15·23	0·35	15·37	0·33	26·80	0·12	22·31	0·21	23·80	0·05	24·19	0·29	27·53	0·20	24·93	0·35	18·27	0·27	20·15
36	31-Sept 6	0·01	28·72	0·01	17·39	0·34	14·66	0·72	13·73	0·90	17·83	2·05	17·28	0·80	16·17	0·00	26·80	0·00	22·31	1·64	25·44	0·04	24·23	0·09	27·62	0·36	25·29	0·23	18·50	0·58	20·73
37	Sept. 7-13 -	1·10	29·82	1·00	18·39	0·28	14·94	0·06	13·79	0·27	18·10	0·18	17·46	0·36	16·53	1·34	28·14	1·14	23·45	0·80	26·24	1·05	25·28	0·85	28·47	1·03	26·32	0·84	19·34	0·70	21·43
38	14-20 -	0·74	30·56	1·05	19·44	0·92	15·86	1·05	14·84	0·66	18·76	0·81	18·27	0·90	17·43	0·39	28·53	0·22	23·67	0·70	26·94	1·32	26·60	1·49	29·96	0·82	27·14	0·62	19·96	0·86	22·29
39	21-27 -	0·56	31·12	0·56	20·00	0·69	16·55	0·12	14·96	0·45	19·21	0·18	18·45	0·40	17·83	1·02	29·55	1·22	24·89	0·43	27·37	1·08	27·68	1·59	31·55	1·07	28·21	0·24	20·20	0·73	23·02
40	Sept. 28-Oct. 4	0·04	31·16	0·11	20·11	0·34	16·89	0·26	15·22	0·74	19·95	0·30	18·75	0·35	18·18	0·08	29·63	0·13	25·02	0·58	27·95	0·06	27·74	0·75	32·30	0·32	28·53	0·69	20·89	0·34	23·36
41	Oct. 5-11 -	0·06	31·22	0·53	20·64	1·53	18·42	1·32	16·54	1·68	21·63	1·58	20·33	1·33	19·51	0·27	29·90	0·77	25·79	1·62	29·57	0·68	28·42	1·32	33·62	0·93	29·46	1·19	22·08	1·13	24·49
42	12-18 -	1·27	32·49	0·30	20·94	0·09	18·51	0·25	16·79	0·11	21·74	0·08	20·41	0·17	19·68	1·06	30·96	0·51	26·30	0·14	29·71	0·75	29·17	0·95	34·57	0·68	30·14	0·04	22·12	0·42	24·91
43	19-25 -	2·14	34·63	0·36	21·30	0·18	18·69	0·57	17·36	0·20	21·94	0·77	21·18	0·42	20·10	0·64	31·60	0·50	26·80	0·48	30·19	1·01	30·18	0·93	35·50	0·71	30·85	1·30	23·42	0·57	25·48
44	Oct. 26-Nov. 1	1·47	36·10	0·50	21·80	0·41	19·10	0·97	18·33	0·94	22·88	1·21	22·39	0·80	20·90	1·31	32·91	1·06	27·86	1·69	31·88	1·21	31·39	1·72	37·22	1·40	32·25	1·08	24·50	1·10	26·58
45	Nov. 2-8 -	1·14	37·24	0·74	22·54	0·33	19·43	0·21	18·54	0·33	23·21	0·58	22·97	0·44	21·34	1·34	34·25	0·68	28·54	1·01	32·89	1·16	32·55	1·28	38·50	1·09	33·34	1·30	25·80	0·77	27·35
46	9-15 -	1·40	38·64	0·59	23·13	0·87	20·30	1·35	19·89	1·34	24·55	1·56	24·53	1·14	22·48	1·96	36·21	1·41	29·95	2·01	34·90	1·41	33·96	1·63	40·13	1·68	35·02	1·66	27·46	1·41	28·76
47	16-22 -	2·97	41·61	0·57	23·70	0·40	20·70	0·41	20·30	0·43	24·98	0·76	25·29	0·51	22·99	1·46	37·67	1·41	31·36	1·08	35·98	0·74	34·70	0·88	41·01	1·11	36·14	0·70	28·16	0·81	29·57
48	23-29 -	2·37	43·98	0·38	24·08	0·20	20·90	0·02	20·32	0·07	25·05	0·06	25·35	0·15	23·14	0·78	38·45	0·30	31·66	0·36	36·34	0·87	35·57	0·62	41·63	0·59	36·73	0·29	28·45	0·37	29·94
49	Nov. 30-Dec. 6	2·18	46·16	1·15	25·23	0·16	21·06	0·28	20·60	0·69	25·74	0·64	25·99	0·58	23·72	1·81	40·26	1·33	32·99	1·53	37·87	1·79	37·36	1·64	43·27	1·62	38·35	1·73	30·18	1·10	31·04
50	Dec. 7-13 -	1·61	47·77	0·15	25·38	0·01	21·07	0·02	20·62	0·04	25·78	0·06	26·05	0·06	23·78	0·69	40·95	0·34	33·33	0·26	38·13	0·33	37·69	0·26	43·53	0·38	38·73	0·16	30·34	0·22	31·26
51	14-20 -	1·21	48·98	0·27	25·65	0·07	21·14	0·10	20·72	0·04	25·82	0·04	26·09	0·10	23·88	0·28	41·23	0·10	33·43	0·10	38·23	0·16	37·85	0·09	43·62	0·15	38·88	0·02	30·36	0·13	31·39
52	21-27 -	1·76	50·74	0·63	26·28	0·31	21·45	0·22	20·94	0·32	26·14	0·84	26·93	0·46	24·34	1·80	42·83	0·94	34·37	1·20	39·43	1·34	39·19	0·50	44·21	1·13	40·01	1·53	31·89	0·79	32·18
53	Dec. 28-Jan. 3	0·83	51·57	0·39	26·67	0·59	22·04	0·16	21·10	0·23	26·37	0·12	27·05	0·30	24·64	0·21	43·04	0·15	34·52	0·20	39·63	0·32	39·51	0·16	44·37	0·21	40·22	0·20	32·09	0·28	32·44

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT ABOVE 42° F. IN EACH DISTRICT DURING THE YEAR 1913.

1913.		0. Scotland, N.		Eastern Districts.										Western Districts.															
Weeks.				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 26, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.
DAY-DEGREES ABOVE 42° FAHRENHEIT—1913.																													
	1913.																												
1	Dec. 29-Jan. 4	11	11	10	10	18	18	22	22	22	22	24	24	19	19	21	21	22	22	25	25	25	25	29	29	24	24	31	34	22	22
2	Jan. 5-11 -	20	31	9	19	8	26	8	30	18	40	20	44	13	32	18	39	20	42	26	51	25	50	30	59	24	48	40	74	18	40
3	12-18 -	0	31	0	19	0	26	1	31	0	40	7	51	2	34	0	39	0	42	5	56	0	50	3	62	2	50	23	97	2	42
4	19-25 -	0	31	0	19	1	27	12	43	8	48	24	75	9	43	0	39	7	49	25	81	10	60	24	86	13	63	34	131	11	53
5	Jan. 26-Feb. 1	0	31	0	19	0	27	5	48	2	50	8	83	3	46	0	39	2	51	10	91	7	67	16	102	9	72	24	155	6	59
6	Feb. 2-8 -	7	38	12	31	30	57	31	79	32	82	29	112	27	73	23	62	28	79	31	122	31	98	36	138	30	102	47	202	29	88
7	9-15 -	18	56	14	45	16	73	14	93	16	98	13	125	15	88	17	79	13	92	17	139	26	124	29	167	20	122	32	234	17	105
8	16-22 -	2	58	0	45	0	73	0	93	0	98	0	125	0	88	1	80	0	92	0	139	1	125	1	168	1	123	3	237	1	106
9	Feb. 23-Mar. 1	10	68	9	54	8	81	14	107	13	111	14	139	11	99	20	100	15	107	24	163	26	151	31	199	23	146	28	265	17	123
10	Mar. 2-8 -	9	77	13	67	32	113	37	144	35	146	32	171	30	129	21	121	27	134	30	193	27	178	31	230	29	175	45	310	29	152
11	9-15 -	6	83	11	78	18	131	33	177	31	176	31	202	24	153	12	133	23	157	27	220	15	193	28	258	21	196	36	346	23	175
12	16-22 -	0	83	3	81	9	140	28	205	14	190	28	230	16	169	6	139	7	164	16	236	9	202	15	273	11	207	31	377	13	188
13	23-29 -	15	98	12	93	14	154	29	234	31	221	32	262	24	193	27	166	19	183	32	268	32	234	35	308	29	236	39	416	27	215
14	Mar. 30-April 5	31	129	25	118	31	185	31	265	36	257	33	295	31	224	37	203	35	218	35	303	34	268	37	345	35	271	39	455	33	248
15	April 6-12 -	11	140	11	129	9	194	12	277	15	272	22	317	14	238	32	235	25	243	27	330	33	301	40	385	31	302	32	487	22	270
16	13-19 -	14	154	20	149	34	228	35	312	34	306	33	350	31	269	24	259	27	270	29	359	28	329	34	419	28	330	39	526	30	300
17	20-26 -	34	188	46	195	46	274	51	363	56	362	54	404	51	320	42	301	50	320	50	409	38	367	43	462	45	375	58	584	48	348
18	April 27-May 3	38	226	47	242	55	329	73	436	49	411	63	467	57	377	37	338	42	362	43	452	39	406	40	502	40	415	59	643	48	396
19	May 4-10 -	29	255	28	270	38	367	50	486	41	452	48	515	41	418	40	378	42	404	42	494	34	440	37	539	39	454	56	699	40	436
20	11-17 -	42	297	45	315	46	413	69	555	63	515	78	593	60	478	59	437	59	463	77	571	55	495	72	611	64	518	71	770	62	498
21	18-24 -	38	335	51	365	64	477	77	632	68	583	78	671	67	545	49	486	62	525	67	638	61	556	71	682	62	580	74	844	65	563
22	May 25-31 -	70	405	79	445	108	585	148	780	127	710	136	807	119	664	81	567	97	622	113	751	76	652	91	773	90	670	114	958	104	667
23	June 1-7 -	75	480	83	528	98	683	107	887	96	806	98	905	96	760	81	648	91	713	86	837	75	707	78	851	82	752	95	1053	89	756
24	8-14 -	49	529	59	587	74	757	93	980	85	891	94	999	81	841	64	712	75	788	83	920	63	770	76	927	72	824	88	1141	77	833
25	15-21 -	98	627	101	688	112	869	130	1110	126	1016	128	1127	119	960	113	825	118	906	111	1031	100	870	103	1030	109	933	113	1254	114	947
26	22-28 -	78	705	90	778	106	975	107	1217	106	1122	109	1236	104	1064	93	918	96	1002	97	1128	81	951	92	1122	92	1025	103	1357	98	1045
27	June 29-July 5	98	803	111	889	104	1079	102	1319	125	1247	128	1364	114	1178	113	1031	116	1118	131	1259	101	1052	123	1245	117	1142	129	1486	116	1161
28	July 6-12 -	77	880	81	970	86	1165	95	1414	95	1342	103	1467	92	1270	86	1117	91	1209	100	1359	82	1134	95	1340	93	1235	108	1594	92	1253
29	13-19 -	97	977	111	1081	123	1288	128	1542	125	1467	125	1592	122	1392	109	1226	113	1322	120	1479	101	1235	116	1456	112	1347	127	1721	117	1370
30	20-26 -	83	1060	83	1164	88	1376	99	1642	106	1573	115	1707	98	1490	99	1325	107	1429	122	1601	101	1336	113	1569	108	1455	127	1848	103	1473
31	July 27-Aug. 2	113	1173	117	1281	111	1487	116	1758	130	1703	130	1837	121	1611	120	1445	127	1556	136	1737	113	1449	131	1703	123	1581	143	1991	124	1597
32	Aug. 3-9 -	80	1253	87	1368	94	1581	95	1853	99	1802	103	1940	96	1707	92	1537	97	1653	109	1846	95	1544	111	1814	101	1682	123	2114	98	1695
33	10-16 -	92	1345	99	1467	111	1692	119	1972	126	1928	133	2073	118	1825	105	1642	120	1773	136	1982	115	1659	134	1948	122	1804	140	2254	120	1815
34	17-23 -	86	1431	95	1562	111	1803	125	2097	118	2046	131	2204	116	1941	99	1741	108	1881	127	2109	107	1766	124	2072	113	1917	137	2391	115	1930
35	Aug. 24-30 -	100	1531	109	1671	127	1930	139	2236	132	2178	141	2345	130	2071	116	1857	130	2011	138	2247	104	1870	116	2188	121	2038	114	2535	125	2055
36	31-Sept. 6	74	1605	74	1745	102	2032	123	2359	111	2289	127	2472	107	2178	93	1950	110	2121	118	2365	98	1968	111	2299	106	2144	141	2676	107	2162
37	Sept. 7-13 -	65	1670	68	1813	97	2129	107	2466	101	2390	116	2588	98	2276	74	2024	95	2216	109	2474	88	2056	104	2403	94	2238	125	2801	93	2258
38	14-20 -	59	1729	57	1870	90	2219	101	2567	84	2474	93	2681	85	2361	71	2095	85	2301	85	2559	73	2129	74	2477	77	2315	106	2907	81	2339
39	21-27 -	89	1818	95	1965	115	2334	121	2691	123	2597	127	2808	117	2478	100	2195	122	2423	123	2682	101	2230	113	2590	112	2427	137	3044	114	2453
40	Sept. 28-Oct. 4	67	1885	71	2036	103	2437	118	2809	109	2706	120	2928	101	2582	97	2292	110	2533	115	2797	102	2332	112	2702	107	2534	130	3174	103	2559
41	Oct. 5-11 -	37	1922	37	2073	60	2497	76	2885	65	2771	85	3013	65	2647	44	2336	64	2597	83	2880	63	2395	72	2774	65	2599	101	3275	65	2624
42	12-18 -	82	2004	75	2148	67	2564	71	2956	62	2833	83	3096	71	2718	81	2417	75	2672	85	2965	90	2485	95	2869	85	2684	102	3377	78	2702
43	19-25 -	34	2038	42	2190	43	2607	50	3006	47	2880	64	3160	49	2767	37	2454	42	2714	59	3024	37	2522	41	2910	43	2727	85	3462	46	2748
44	Oct. 26-Nov. 1	50	2088	48	2238	61	2668	80	3086	60	2940	87	3247	67	2834	58	2512	69	2783	76	3100	51	2576	53	2968	63	2790	95	3557	65	2813
45	Nov. 2-8 -	27	2115	29	2267	34	2702	42	3128	41	2981	48	3295	39	2873	29	2541	35	2818	46	3146	37	2613	39	3007	37	2827	71	3628	38	2851
46	9-15 -	24	2139	26	2293	32	2734	43	3171	38	3019	50	3345	38	2911	29	2570	37	2855	51	3197	39	2652	46	3053	40	2867	72	3700	39	2890
47	16-22 -	26	2165	28	2321	39	2773	44	3215	43	3062	50	3395	41	2952	31	2601	44	2899	49	3246	33	2685	41	3094	39	2906	67	3767	40	2930
48	Nov. 23-29 -	33	2198	35	2356	32	2805	37	3252	37	3099	39	3434	36	2988	39	2640	39	2938	36	3282	37	2722	41	3135	38	2944	54	3821	37	2967
49	30-Dec. 6	0	2198	2	2358	11	2816	27	3279	24	3123	39	3473	21	3009	8	2648	24	2962	41	3323	26	2748	35	3170	27	2971	55	3875	24	2991
50	Dec. 7-13 -	27	2225	29	2387	28	2844	27	3306	30	3153	31	3504	29	3038	26	2674	27	2989	40	3363	32	2780	36	3206	32	3003	57	3933	31	3022
51	14-20 -	21	2246	11	2398	19	2863	19	3325	18	3171	18	3522	17	3055	16	2690	17	3006	18	3381	20	2800	20	3226	18	3021	27	3960	17	3039
52	21-27 -	4	2250	3	2401	5	2868	2	3327	3	3174	5	3527	4	3059	7	2697	8	3014	7	3388	8	2808	7	3233	7	3028	7	3967	5	3044
53	Dec. 28-Jan. 3	0	2250	0	2401	0	2868	0	3327	0	3174	0	3527	0	3059	0	2697	0	3014	0	3388	0	2808	0	3233	0	3028	9	3976	0	3044

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **ACCUMULATED HEAT** BELOW 42° F. IN EACH DISTRICT DURING THE YEAR 1913.

1913.		0. Scot-land, N.		Eastern Districts.										Western Districts.															
				1. Scot-land, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scot-land, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.
DAY-DEGREES BELOW 42° FAHRENHEIT—1913.																													
	1913.																												
1	Dec. 29-Jan. 4	21	21	26	26	9	9	8	8	10	10	5	5	12	12	7	7	5	5	1	1	13	13	13	13	8	8	0	0	10	10
2	Jan. 5-11 -	6	27	21	47	18	27	15	23	11	21	4	9	14	26	9	16	7	12	0	1	6	19	4	17	5	13	0	0	10	20
3	12-18 -	31	58	64	111	57	84	36	59	53	74	32	41	48	74	48	64	42	54	33	34	33	52	37	54	39	52	8	8	44	64
4	19-25 -	43	101	57	168	30	114	24	83	30	104	11	52	30	104	32	96	25	79	8	42	21	76	9	63	20	72	0	8	25	89
5	Jan. 26-Feb. 1	30	131	43	211	34	148	27	110	34	138	22	74	32	136	27	123	29	108	23	65	25	101	27	90	26	98	1	9	29	118
6	Feb. 2-8 -	27	158	29	240	13	161	8	118	11	149	0	74	12	148	10	133	7	115	2	67	11	112	5	95	7	105	0	9	10	128
7	9-15 -	10	168	28	268	30	191	26	144	34	183	25	99	29	177	11	144	22	137	28	95	8	120	5	100	15	120	2	11	22	150
8	16-22 -	33	201	40	308	34	225	35	179	44	227	40	139	39	216	36	180	33	170	43	138	28	148	32	132	34	154	22	33	36	186
9	Feb. 23-Mar. 1	25	226	34	342	33	258	30	209	35	261	23	162	31	247	13	193	23	193	14	152	13	161	13	145	15	169	3	36	18	204
10	Mar. 2-8 -	26	252	31	373	13	271	9	218	10	272	4	166	13	260	13	206	9	202	3	155	13	174	10	155	9	178	0	36	11	215
11	9-15 -	29	281	31	404	26	297	13	231	16	288	10	176	19	279	23	229	13	215	10	165	25	199	13	168	17	195	0	36	18	233
12	16-22 -	41	322	40	444	34	331	17	248	32	320	12	188	27	306	31	260	27	242	23	188	32	231	30	198	28	223	2	38	28	261
13	23-29 -	22	344	30	474	24	355	13	261	20	340	11	199	20	326	17	277	28	270	14	202	17	248	14	212	18	241	0	38	19	280
14	Mar. 30-Apr. 5	19	363	33	507	11	366	5	266	12	352	3	202	13	339	14	291	9	279	6	208	13	261	9	221	10	251	0	38	12	292
15	April 6-12 -	25	388	26	533	19	385	18	284	21	373	10	212	19	358	17	308	11	290	8	216	8	269	4	225	10	261	0	38	15	307
16	13-19 -	25	413	31	564	14	399	16	300	15	388	9	221	17	375	13	321	7	297	5	221	12	281	8	233	9	270	0	38	13	320
17	20-26 -	4	417	12	576	4	403	3	303	3	391	0	221	4	379	1	322	0	297	0	221	6	287	4	237	2	272	0	38	3	323
18	April 27-May 3	4	421	9	585	0	403	0	303	0	391	0	221	2	381	1	323	0	297	0	221	5	292	2	239	2	274	0	38	2	325
19	May 4-10 -	0	421	4	589	0	403	0	303	1	392	0	221	1	382	0	323	1	298	0	221	5	297	4	243	2	276	0	38	2	327
20	11-17 -	1	422	6	595	3	406	0	303	0	392	0	221	2	384	0	323	0	298	0	221	0	297	0	243	0	276	0	38	1	328
21	18-24 -	2	424	6	601	0	406	0	303	0	392	0	221	1	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	1	329
22	May 25-31 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
23	June 1-7 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
24	8-14 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
25	15-21 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
26	22-28 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
27	June 29-July 5	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
28	July 6-12 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
29	13-19 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
30	20-26 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
31	July 27-Aug. 2	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
32	Aug. 3-9 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
33	10-16 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
34	17-23 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
35	Aug. 24-30 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
36	31-Sept. 6	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
37	7-13 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
38	14-20 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
39	21-27 -	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
40	Sept. 28-Oct. 4	0	424	0	601	0	406	0	303	0	392	0	221	0	385	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	329
41	Oct. 5-11 -	6	430	8	609	0	406	0	303	0	392	0	221	2	387	0	323	0	298	0	221	0	297	0	243	0	276	0	38	1	330
42	12-18 -	0	430	0	609	0	406	0	303	0	392	0	221	0	387	0	323	0	298	0	221	0	297	0	243	0	276	0	38	0	330
43	19-25 -	3	433	8	617	3	409	0	303	4	396	0	221	3	390	5	328	3	301	0	221	10	307	13	256	6	282	0	38	5	335
44	Oct. 26-Nov. 1	0	433	0	617	0	409	0	303	0	396	0	221	0	390	0	328	0	301	0	221	0	307	0	256	0	282	0	38	0	335
45	Nov. 2-8 -	8	441	15	632	8	417	5	308	11	407	0	221	8	398	7	335	2	303	0	221	8	315	8	264	5	287	0	38	7	342
46	9-15 -	5	446	10	642	3	420	0	308	5	412	0	221	4	402	1	336	0	303	0	221	0	315	0	264	0	287	0	38	2	344
47	16-22 -	13	459	13	655	1	421	0	308	0	412	0	221	3	405	3	339	0	303	0	221	4	319	0	264	1	288	0	38	2	346
48	Nov. 23-29 -	1	460	3	658	5	426	9	317	13	425	6	227	7	412	0	339	0	303	2	223	0	319	1	265	1	289	0	38	4	350
49	30-Dec. 6	35	495	35	693	13	439	7	324	6	431	0	227	12	424	21	360	5	308	0	223	7	326	0	265	7	296	0	38	10	360
50	7-13 -	10	505	17	710	11	450	7	331	7	438	2	229	9	433	4	364	0	308	0	223	0	326	0	265	1	297	0	38	5	365
51	14-20 -	4	509	22	732	3	453	10	341	11	449	11	240	11	444	5	369	2	310	9	232	3	329	5	270	5	302	0	38	8	373
52	21-27 -	25	534	31	763	31	484	34	375	35	484	31	271	32	476	25	394	18	328	25	257	23	352	24	294	23	325	27	65	28	401
53	Dec. 28-Jan. 3	34	568	50	813	60	544	51	429	62	546	50	321	55	531	39	433	38	366	39	296	35	387	42	336	39	364	19	84	47	448

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE IN EACH DISTRICT REGISTERED DURING THE YEAR 1913.

1913.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.
	NUMBERS OF HOURS OF BRIGHT SUNSHINE—1913.																														
	1913.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.
1	Dec. 29-Jan. 4	4	4	5	5	6	6	13	13	6	6	15	15	9	9	4	4	4	4	10	10	10	10	7	7	7	7	15	15	8	8
2	Jan. 5-11 -	3	7	3	8	3	9	7	20	4	10	8	23	5	14	2	6	6	10	7	17	5	15	4	11	5	12	8	23	5	13
3	12-18 -	3	10	3	11	4	13	14	34	11	21	18	41	10	24	7	13	13	23	13	30	12	27	13	24	12	24	16	39	11	24
4	19-25 -	10	20	8	19	4	17	2	36	2	23	3	44	4	28	10	23	5	28	7	37	7	34	11	35	8	32	11	50	6	30
5	Jan. 26-Feb. 1	2	22	8	27	13	30	15	51	10	33	11	55	11	39	5	28	8	36	6	43	4	38	11	46	7	39	7	57	9	39
6	Feb. 2-8 -	3	25	8	35	11	41	12	63	9	42	10	65	10	49	5	33	5	41	8	51	10	48	8	54	7	46	13	70	8	47
7	9-15 -	12	37	18	53	16	57	9	72	13	55	12	77	13	62	4	37	15	56	22	73	11	59	10	64	12	58	26	96	13	60
8	16-22 -	13	50	16	69	20	77	30	102	22	77	32	109	24	86	16	53	27	83	34	107	16	75	19	83	22	80	32	128	23	83
9	Feb. 23-Mar. 1	7	57	6	75	10	87	19	121	10	87	21	130	13	99	12	65	9	92	13	120	11	86	14	97	12	92	23	151	12	95
10	Mar. 2-8 -	22	79	35	110	34	121	28	149	29	116	25	155	30	129	30	95	27	119	25	145	24	110	25	122	26	118	25	176	28	123
11	9-15 -	17	96	29	139	27	148	25	174	20	136	24	179	25	154	14	109	26	145	15	160	14	124	15	137	17	135	23	199	21	144
12	16-22 -	19	115	26	165	33	181	32	206	25	161	32	211	30	184	28	137	25	170	22	182	28	152	28	165	26	161	28	227	28	172
13	23-29 -	30	145	23	188	16	197	17	223	22	183	23	234	20	204	29	166	30	200	36	218	36	188	37	202	34	195	44	271	27	199
14	Mar. 30-Apr. 5	36	181	43	231	30	227	24	247	25	208	27	261	29	233	34	200	35	235	37	255	46	234	45	247	39	234	32	303	34	233
15	April 6-12 -	12	193	13	244	12	239	17	264	15	223	20	281	15	248	26	226	20	255	22	277	38	272	41	288	29	263	23	326	22	255
16	13-19 -	30	223	33	277	33	272	30	294	31	254	33	314	32	280	28	254	30	285	29	306	28	300	27	315	28	291	32	358	30	285
17	20-26 -	29	252	39	316	38	310	46	340	34	288	43	357	40	320	30	284	29	314	26	332	20	320	22	337	25	316	39	397	33	318
18	April 27-May 3	41	293	36	352	30	340	35	375	21	309	28	385	30	350	26	310	24	338	20	352	36	356	36	373	28	344	30	427	29	347
19	May 4-10 -	16	309	12	364	16	356	15	390	18	327	25	410	17	367	19	329	22	360	41	393	31	387	32	405	29	373	40	467	23	370
20	11-17 -	38	347	42	406	43	399	58	448	47	374	49	459	48	415	41	370	44	404	50	443	36	423	48	453	44	417	36	503	46	416
21	18-24 -	33	380	36	442	38	437	45	493	42	416	57	516	44	459	33	403	31	435	33	476	30	453	26	479	31	448	36	539	37	453
22	May 25-31 -	29	409	37	479	41	478	62	555	52	468	71	587	52	511	34	437	44	479	48	524	35	488	35	514	39	487	57	596	46	499
23	June 1-7 -	25	434	54	533	57	535	49	604	53	521	53	640	53	564	46	483	58	537	51	575	30	518	38	552	45	532	60	656	49	548
24	8-14 -	42	476	50	583	43	578	52	656	38	559	35	675	44	608	42	525	32	569	27	602	25	543	32	584	31	563	26	682	38	586
25	15-21 -	44	520	37	620	58	636	64	720	48	607	59	734	53	661	30	555	39	608	40	642	36	579	39	623	37	600	48	730	45	631
26	22-28 -	13	533	25	645	26	662	27	747	35	642	42	776	31	692	23	578	25	633	55	697	19	598	38	661	32	632	38	798	31	662
27	June 29-July 5	26	559	29	674	23	685	18	765	29	671	35	811	27	719	64	642	43	676	55	752	51	649	52	713	53	685	55	853	40	702
28	July 6-12 -	37	595	38	712	33	718	35	800	17	688	29	840	30	749	30	672	27	703	29	781	22	671	23	736	26	711	31	884	28	730
29	13-19 -	11	606	23	735	16	734	15	815	12	700	14	854	16	765	32	704	30	733	26	807	12	683	15	751	23	734	31	915	20	750
30	20-26 -	56	662	41	776	19	753	28	843	34	734	41	895	33	798	60	764	53	786	66	873	58	741	59	810	59	793	69	984	46	796
31	July 27-Aug. 2	18	680	35	811	41	794	40	883	40	774	48	943	41	839	41	805	59	845	62	935	48	789	56	866	53	846	43	1027	47	843
32	Aug. 3-9 -	26	706	32	843	46	840	47	930	34	808	34	977	39	878	47	852	53	898	46	981	36	825	40	906	44	890	47	1074	42	885
33	10-16 -	19	725	20	863	24	864	32	962	15	823	27	1004	24	902	18	870	21	919	25	1006	18	843	19	925	20	910	37	1111	22	907
34	17-23 -	43	768	45	908	29	893	32	994	31	854	41	1045	36	938	42	912	45	964	48	1054	45	888	42	967	44	954	59	1170	40	947
35	Aug. 24-30 -	20	788	34	942	49	942	52	1046	42	896	46	1091	45	983	47	959	52	1016	35	1089	36	924	44	1011	43	997	39	1209	44	991
36	31-Sept. 6	40	828	19	961	12	954	7	1053	9	905	4	1095	10	993	19	978	27	1043	11	1100	24	948	20	1031	20	1017	23	1232	15	1006
37	Sept. 7-13 -	15	843	18	979	42	996	44	1097	36	941	49	1144	38	1031	22	1000	33	1076	36	1136	21	969	28	1059	28	1045	46	1278	33	1039
38	14-20 -	6	849	14	993	32	1028	34	1131	28	969	34	1178	28	1059	24	1024	33	1109	34	1170	28	997	36	1095	31	1076	49	1327	29	1068
39	21-27 -	17	866	15	1008	22	1050	32	1163	24	993	35	1213	26	1085	10	1034	13	1122	17	1187	15	1012	10	1105	13	1089	35	1362	20	1088
40	Sept. 28-Oct. 4	24	890	17	1025	24	1074	38	1201	20	1013	36	1249	27	1112	24	1058	27	1149	21	1208	24	1036	26	1131	24	1113	25	1387	25	1113
41	Oct. 5-11 -	32	922	25	1050	18	1092	22	1223	12	1025	19	1268	19	1131	24	1082	15	1164	26	1234	19	1055	19	1150	21	1134	40	1427	20	1133
42	12-18 -	10	932	15	1065	22	1114	28	1251	24	1049	31	1302	25	1156	9	1091	21	1185	34	1268	9	1064	11	1161	17	1151	46	1473	21	1154
43	19-25 -	18	950	31	1096	27	1141	28	1279	24	1073	23	1325	27	1183	28	1119	30	1215	26	1294	36	1100	42	1203	32	1183	28	1501	30	1184
44	Oct. 26-Nov. 1	17	967	21	1117	23	1164	20	1299	21	1094	20	1345	21	1204	14	1133	19	1234	17	1311	17	1117	16	1219	17	1200	26	1527	19	1203
45	Nov. 2-8 -	15	982	20	1137	19	1183	23	1322	22	1116	25	1370	22	1226	15	1148	16	1250	21	1332	25	1142	21	1240	20	1220	22	1549	21	1224
46	9-15 -	7	989	12	1149	16	1199	19	1341	17	1133	18	1388	16	1242	12	1160	15	1265	19	1351	14	1156	18	1258	16	1236	18	1567	16	1240
47	16-22 -	7	996	15	1164	16	1215	16	1357	9	1142	14	1402	14	1256	8	1168	9	1274	9	1360	13	1169	13	1271	11	1247	15	1582	12	1252
48	Nov. 23-29 -	2	998	9	1173	15	1230	20	1377	12	1154	15	1417	14	1270	6	1174	10	1284	8	1368	4	1173	4	1275	7	1254	5	1587	10	1262
49	30-Dec. 6	3	1001	14	1187	10	1240	10	1387	6	1160	6	1423	9	1279	7	1181	7	1291	4	1372	4	1177	4	1279	5	1259	3	1590	7	1269
50	Dec. 7-13 -	2	1003	8	1195	6	1246	9	1396	5	1165	6	1429	7	1286	4	1185	4	1295	6	1378	4	1181	5	1284	5	1254	8	1598	6	1275
51	14-20 -	2	1005	4	1199	5	1251	8	1404	6	1171	16	1445	8	1294	5	1190	4	1299	14	1392	2	1183	5	1289	6	1270	10	1608	7	1282
52	21-27 -	2	1007	7	1206	7	1258	8	1412	7	1178	7	1452	7	1301	10	1200	5	1304	6	1398	10	1193	7	1296	8	1278	12	1620	8	1290
53	Dec. 28-Jan. 3	6	1013	12	1218	18	1276	18	1430	15	1193	18	1470	16	1317	13	1213	13	1317	19	1417	13	1206	17	1313	15	1293	16	1635	15	1305

TABLE VI.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **BRIGHT SUNSHINE** IN EACH DISTRICT EXPRESSED AS **PERCENTAGES** OF THE **POSSIBLE DURATION** FOR THE YEAR 1913.

1913.				Eastern Districts.												Western Districts.															
Weeks.		0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Limiting Dates of each week.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.	For the Week.	From Dec. 29, 1912.
PERCENTAGES OF POSSIBLE DURATION OF BRIGHT SUNSHINE—1913.																															
	1913.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Dec. 29-Jan. 4	8	8	11	11	12	12	24	24	12	12	27	27	17	17	7	7	8	8	19	19	20	20	14	14	14	14	26	26	15	15
2	Jan. 5-11 -	6	7	6	9	5	8	12	18	7	9	14	20	9	13	4	6	12	10	13	16	9	14	7	10	9	11	13	20	9	11
3	12-18 -	7	7	6	8	8	8	24	20	19	13	31	24	18	15	14	8	25	16	23	18	22	17	23	15	22	15	27	22	20	15
4	19-25 -	19	10	15	10	7	8	3	16	3	10	6	19	7	13	18	11	10	14	12	17	12	16	19	16	14	15	18	21	11	14
5	Jan. 26-Feb. 1	3	9	13	11	21	11	24	18	17	12	18	19	18	14	8	10	13	14	10	15	6	14	18	17	12	14	11	19	15	14
6	Feb. 2-8 -	6	8	13	11	18	12	19	18	12	12	15	18	16	14	8	10	8	13	13	15	16	14	13	16	11	14	20	19	13	14
7	9-15 -	19	10	28	14	25	14	13	17	19	13	17	18	20	15	5	9	23	14	32	17	16	14	14	16	18	14	38	22	19	15
8	16-22 -	20	12	23	15	29	16	43	21	31	15	46	22	34	18	23	11	39	18	48	22	23	16	27	17	31	17	44	25	33	17
9	Feb. 23-Mar. 1	10	11	8	14	13	16	26	22	13	15	28	23	18	18	17	12	13	17	17	21	15	15	18	17	16	17	31	26	16	17
10	Mar. 2-8 -	29	14	46	18	44	19	37	23	37	18	33	24	39	20	39	15	35	19	32	23	31	18	32	19	34	19	32	27	36	20
11	9-15 -	21	15	36	20	33	21	30	24	24	19	29	24	31	22	18	16	32	21	19	22	17	17	19	19	21	19	29	27	26	20
12	16-22 -	22	15	31	21	39	23	38	26	30	20	38	26	36	23	33	17	30	22	26	23	34	19	34	20	31	20	33	27	33	22
13	23-29 -	34	17	26	22	18	23	20	25	25	20	27	26	23	23	33	19	33	23	41	24	41	21	47	23	39	22	50	30	31	23
14	Mar. 30-Apr. 5	39	20	47	24	33	24	26	25	27	21	30	26	32	24	38	21	38	24	41	26	50	24	47	25	43	24	36	30	37	24
15	April 6-12 -	13	19	14	23	13	23	18	24	17	21	21	26	16	23	27	21	21	24	24	26	40	26	43	27	31	25	25	30	23	24
16	13-19 -	30	20	33	24	34	24	31	25	32	21	34	27	33	24	28	22	30	24	30	26	29	26	28	27	29	25	33	30	31	24
17	20-26 -	28	21	38	25	38	25	46	27	34	23	43	28	40	25	30	23	28	25	26	26	19	25	22	27	25	25	39	31	33	25
18	April 27-May 3	38	22	34	26	28	25	34	27	20	22	27	28	29	26	25	23	23	25	19	26	34	26	34	27	27	25	30	31	28	25
19	May 4-10 -	14	21	11	25	15	24	14	26	17	22	24	28	16	25	17	22	21	25	39	26	29	26	30	27	27	25	38	31	22	25
20	11-17 -	33	22	38	26	39	25	54	28	43	23	45	29	44	26	37	23	40	26	47	28	32	27	44	28	40	26	34	31	42	26
21	18-24 -	29	23	32	26	34	26	41	29	37	24	52	30	39	27	32	24	28	26	30	28	27	27	24	28	27	26	34	31	33	27
22	May 25-31 -	24	23	31	26	36	26	55	31	45	26	64	32	46	28	29	24	38	27	43	29	31	27	31	28	34	27	52	33	40	28
23	June 1-7 -	21	22	44	28	48	28	43	31	46	27	47	33	46	30	39	25	50	28	45	30	26	27	33	29	39	28	54	34	42	28
24	8-14 -	34	23	41	28	37	28	46	32	33	27	31	33	38	30	35	26	27	28	24	30	21	27	28	29	27	28	23	33	33	29
25	15-21 -	35	24	30	28	49	29	55	33	42	28	51	34	45	30	25	26	33	28	35	30	31	27	33	29	32	28	42	34	39	29
26	22-28 -	10	23	21	28	22	29	23	33	30	28	37	34	26	30	19	25	21	28	48	31	16	26	33	29	27	28	61	35	26	29
27	June 29-July 5	21	23	24	28	19	29	16	32	25	28	31	34	23	30	54	27	37	28	48	31	43	27	45	30	45	29	49	36	34	29
28	July 6-12 -	30	23	32	28	28	29	31	32	15	27	26	34	26	30	25	27	23	28	26	31	19	27	20	29	23	28	28	36	24	29
29	13-19 -	9	23	20	28	14	28	14	31	11	27	12	33	14	29	28	27	27	28	24	31	10	26	14	29	20	28	29	35	18	29
30	20-26 -	48	24	34	28	17	27	25	31	31	27	37	33	30	30	53	28	48	29	60	32	52	27	54	30	53	29	65	36	41	29
31	July 27-Aug. 2	16	23	31	28	37	28	37	31	37	27	44	33	38	30	37	28	54	30	58	33	44	28	52	30	49	30	41	37	43	30
32	Aug. 3-9 -	23	23	29	28	43	28	45	32	32	27	33	33	37	30	44	29	50	30	44	34	33	28	38	31	42	30	46	37	40	30
33	10-16 -	18	23	19	28	23	28	32	32	14	27	26	33	23	30	17	28	21	30	24	33	17	28	19	30	19	30	37	37	21	30
34	17-23 -	42	24	44	28	29	28	32	32	31	27	41	33	36	30	42	29	45	31	49	34	44	28	42	31	44	30	61	38	40	30
35	Aug. 24-30 -	20	24	35	28	50	29	54	32	44	27	48	34	47	30	48	29	55	31	37	34	37	28	46	31	45	31	40	38	46	31
36	31-Sept. 6	42	24	20	28	13	28	7	32	10	27	5	33	11	30	21	29	29	31	12	33	26	28	21	31	22	30	25	37	16	30
37	Sept. 7-13 -	17	24	20	28	46	29	50	32	40	27	55	34	42	30	25	29	37	31	40	33	23	28	32	31	31	30	52	38	37	30
38	14-20 -	7	24	16	28	38	29	40	32	32	27	40	34	33	30	28	29	39	32	40	34	32	28	41	31	36	31	57	38	34	30
39	21-27 -	21	24	18	28	26	29	39	32	29	27	42	34	31	30	12	28	16	31	20	33	18	28	12	31	16	30	42	39	24	30
40	Sept. 28-Oct. 4	31	24	21	27	30	29	47	33	25	27	45	34	34	30	29	29	33	31	26	33	30	28	32	31	30	30	37	38	31	30
41	Oct. 5-11 -	43	24	34	28	24	29	28	33	16	27	25	34	25	30	31	29	20	31	34	33	25	28	25	31	28	30	53	38	26	30
42	12-18 -	14	24	21	27	30	29	38	33	33	27	46	34	34	30	13	28	29	31	47	33	13	28	15	30	23	30	61	39	29	30
43	19-25 -	27	24	47	28	39	29	40	33	34	27	33	34	39	30	41	28	43	31	37	33	52	28	60	31	46	30	39	39	44	30
44	Oct. 26-Nov. 1	27	24	33	28	34	29	29	33	32	27	29	34	32	30	21	28	29	31	25	33	25	28	24	31	26	30	38	39	29	30
45	Nov. 2-8 -	26	24	33	28	30	29	36	33	35	28	40	34	35	30	25	29	25	31	33	33	40	28	34	31	32	30	34	39	33	30
46	9-15 -	13	24	21	28	27	29	31	33	28	28	29	34	27	30	21	28	24	31	31	33	23	28	29	31	27	30	29	39	27	30
47	16-22 -	14	24	27	28	28	29	28	33	16	27	24	34	25	30	15	28	16	31	16	33	23	28	22	31	19	30	24	38	21	30
48	Nov. 23-29 -	4	24	18	28	28	29	36	33	22	27	27	34	26	30	11	28	19	31	15	33	7	28	7	30	13	30	8	38	19	30
49	30-Dec. 6	8	23	20	28	20	29	19	33	10	27	10	34	17	30	13	28	13	30	16	32	7	28	7	30	10	30	5	38	13	30
50	Dec. 7-13 -	4	23	18	28	12	29	16	32	9	27	12	33	14	30	8	28	7	30	11	32	8	27	10	30	10	29	13	37	12	30
51	14-20 -	4	23	14	27	9	29	16	32	11	27	30	33	16	30	9	27	8	30	26	32	4	27	10	30	12	29	19	37	14	29
52	21-27 -	5	23	14	27	14	28	15	32	13	27	13	33	14	30	20	27	11	30	11	32	19	27	14	29	16	29	22	37	16	29
53	Dec. 28-Jan. 3	13	23	25	27	36	29	34	32	29	27	33	33	31	30	26	27	25	30	34	32	25	27	32	29	30	29	28	37	29	29

Meteorological Office,
South Kensington, London, S.W.,

April 25th, 1914.

FOR OFFICIAL USE.

METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK—PART I.

WEEKLY WEATHER REPORT, 1913.

Thirty-sixth Year.
VOL. XXX. [*New Series.*] APPENDIX III. [*Price 4d.*

SUMMARY OF RECORDS OF WIND DERIVED FROM SELF-RECORDING ANEMOGRAPHS IN THE BRITISH ISLES AND AT GIBRALTAR AND ST. HELENA DURING 1913.

TABLE I.—NUMBER OF HOURS in each Month during which the MEAN Wind Velocity was equivalent to Gale Force (17·2 metres per second, 39 miles per hour, or more; Force 8 and upwards).

District and Station.	H_a	h_a	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
	Ft.	Ft.													
0. Deerness* (1862)	188	16	137	5	15	5	8	0	0	0	0	0	17	1	188
1. Aberdeen* (1868)	120	72	0	3	0	0	0	0	0	0	0	0	0	0	3
Rosyth‡ (1911)	85	73	0	0	1	0	0	0	0	0	0	0	1	2	4
2. Alnwick‡ (1906)	340	70	0	0	0	0	0	0	0	0	0	0	0	0	0
South Shields‡ (1909)	72	61	23	5	7	0	0	0	0	0	0	0	4	4	43
3. Spurn Head‡	66	40	—	—	6	6	0	3	6	0	0	0	0	2	—
Yarmouth* (1869)	73	60	19	3	0	0	0	0	0	0	0	0	0	0	22
Gorleston‡ (1908)	52	42	22	0	5	0	0	0	0	0	0	0	0	0	27
Shoeburyness‡ (1902)	103	90	0	3	11	0	0	0	0	0	0	0	0	1	15
4. Pyrton Hill‡ (1907)	253	45	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Dover‡ (1907)	271	40	2	3	16	5	0	0	0	0	0	0	1	4	31
Warlingham‡ (1909)	642	33	0	0	0	0	0	0	0	0	0	0	0	0	0
Brighton‡ (1908)	261	53	0	0	0	0	0	0	0	0	0	0	0	0	0
Kew* (1868)	82	65	0	0	1	0	0	0	0	0	0	0	0	0	1
South Kensington‡ (1910) ...	123	92	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Eskdalemuir‡ (1911)	849	50	1	18	12	0	0	6	0	0	0	0	14	15	66
Glasgow* (1868)	227	47	0	0	0	—	—	—	—	—	—	—	—	—	—
7. Fleetwood* (1886)	109	44	0	10	19	7	7	1	0	0	0	0	23	38	105
Southport‡ (1907)	80	62	12	12	57	7	0	8	0	0	0	0	24	44	164
Stonyhurst* (1868)	405	30	0	0	0	—	—	—	—	—	—	—	—	—	—
Holyhead* (1870)	50	25	0	9	3	4	0	0	0	0	0	0	12	14	42
Dwyran‡ (1910)	57	40	3	12	13	—	—	—	—	—	—	—	—	—	—
8. Falmouth* (1868)	208	41	0	0	0	0	0	0	0	0	0	0	0	0	0
Pendennis Castle‡ (1902) ...	256	65	99	36	95	31	17	10	0	0	0	17	38	33	376
Plymouth‡ (1908)	185	86	0	4	3	7	8	0	0	0	0	1	0	0	23
9. Armagh* (1868)	246	50	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Dublin, Phœnix Park† (1887) ...	193	38	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingstown* (1900)	49	27	3	10	5	0	5	6	0	0	0	1	5	5	40
Quilty‡ (1911)	—	40	12	8	4	2	0	0	0	0	4	1	2	11	44
Roche's Point‡ (1905)	91	30	39	9	6	0	0	0	0	0	5	5	8	1	73
Valencia* (1868)	75	45	5	6	0	0	0	0	0	0	0	0	0	0	11
11. Scilly† (1879)	150	19	39	7	19	0	6	0	0	0	0	0	13	39	123
Gibraltar‡ (1907)	1295	40	6	0	5	0	0	0	0	0	0	3	0	1	15
St. Helena† (1892)	1960	—	0	0	0	0	0	0	0	0	0	0	0	0	0

* Robinson Cup Anemometer: standard size, 9in. cups, 2ft. arms. † Robinson Cup Anemometer: smaller size, 5in. cups, 1ft. arms.
‡ Dines Pressure Tube Anemometer.
H_a = height of vane or cups of anemometer above M.S.L.
h_a = " " " ground.

At certain stations, where anemometers of both types are used, the heights given above refer to the Robinson Cup instrument. The heights above ground of the vane of the Pressure Tube Anemometer are at Aberdeen, 105 feet; Holyhead, 40 feet; Kew, 40 feet, and Scilly, 19 feet. The numbers in brackets are the years in which the records commenced.

At Deerness the anemometer was erected in April, 1891, having been previously at Stenness, 1890–1; at Swanbister, 1886–1890; and at Sandwick Manse, 1862–1885.

At Falmouth the position was changed in May, 1885. The previous values were H_a = 230ft.; h_a = 40ft.
At Valencia " " March, 1892. " " " H_a = 50ft.; h_a = 40ft.

(1436—19.) Wt. 196—786. 450. 7/14. D & S. G. 17/ 39.

TABLE II.—OCCASIONS OF "STRONG GALE"—When the mean velocity of the wind measured over the hour from half-an-hour before to half-an-hour after an exact hour of G.M.T. was 20·8 or more metres per second (47 or more miles per hour), Force 9 and upwards.

[The highest Mean Velocity measured in this way which has been recorded at M.O. stations in the British Isles is 34·9 m/s. (78 m.p.h.) at Fleetwood on 22nd December 1894.]

District and Station.	Date, 1913.	Direction.	Maximum Hourly Mean.		Maximum Velocity in a gust.				Time during which velocity reached or exceeded 17·2 m.p.s. (39 miles per hour).
			Hour.	Velocity.	Time.	Direction.	Velocity.		
				m/s.	h. m.		m/s.	m.p.h.	
0. Deerness ...	January 10–11	S.E.	7h., 11h. 11th.	23·9	—	—	—	—	6h. 30m. 9th to 12h. 30m. 12th.
	„ 14 ...	S.E.	23	21·0	—	—	—	—	} 18h. 30m. 14th to 21h. 30m. 15th.
	„ 15 ...	E.S.E.	11	21·0	—	—	—	—	
	February 8 ...	W.N.W.	5	22·3	—	—	—	—	3h. 30m. to 7h. 30m.
	March 5 ...	W.S.W.	11	23·3	—	—	—	—	8h. 30m. to 12h. 30m.
	„ 10 ...	W.	2	22·0	—	—	—	—	20h. 30m. 9th to 5h. 30m. 10th.
2. South Shields.	January 11 ...	S.S.E.	16	21·0	21 45	S.S.E.	28·2	63	3h. 30m. 11th to 2h. 30m. 12th.
	February 8 ...	W.N.W.	2	22·4	1 25	W.	33·1	74	0h. 30m. to 4h. 30m.
	December 3 ...	W.	23	21·9	23 0	N.W.	32·2	72	22h. 30m. to 24h. 30m.
3. Yarmouth ...	January 11 ...	E.S.E.	18	22·3	—	—	—	—	6h. 30m. 11th to 2h. 30m. 12th.
Gorleston ...	„ 11 ...	—	19	21·0	19 15	—	26·4	59	6h. 30m. 11th to 2h. 30m. 12th.
5. Dover ...	March 17 ...	—	5	21·5	5 5	—	30·0	67	3h. 30m. to 6h. 30m.
6. Eskdalemuir.	February 8 ...	—	1	21·0	1 45	—	36·7	82	0h. 30m. to 5h. 30m.
	December 10 ...	—	14	23·5	14 10	—	32·3	72	11h. 30m. to 15h. 30m.
7. Fleetwood ...	February 7–8 ...	W.S.W.	24	24·6	—	—	—	—	19h. 30m. 7th to 5h. 30m. 8th.
	November 2 ...	W.N.W.	22	21·6	—	—	—	—	21h. 30m. to 23h. 30m.
	„ 18 ...	W.N.W.	16, 17	23·3	—	—	—	—	12h. 30m. 18th to 2h. 30m. 19th.
	December 3 ...	W.N.W.	22	24·9	—	—	—	—	20h. 30m. to 23h. 30m.
	„ 4 ...	W.N.W.	11	25·2	—	—	—	—	7h. 30m. to 13h. 30m.
Southport ...	February 7–8 ...	W.S.W.	22	27·7	22 25	W.S.W.	38·4	86	18h. 30m. 7th to 6h. 30m. 8th.
	March 19 ...	W.	13	21·0	18 55	W.S.W.	34·4	77	8h. 30m. 19th to 5h. 30m. 20th.
	November 2 ...	W.	22	21·0	21 35	W.	28·2	63	21h. 30m. to 24h. 30m.
	„ 18 ...	W.N.W.	18	23·7	17 35	W.N.W.	32·6	73	12h. 30m. 18th to 2h. 30m. 19th.
	December 3 ...	W.	22	25·0	21 28	W.	36·7	82	20h. 30m. to 24h. 30m.
	„ 4 ...	W.N.W.	11	22·8	10 50	W.N.W.	30·4	68	8h. 30m. to 18h. 30m.
	„ 26 ...	W.S.W.	20	22·8	19 35	W.S.W.	31·3	70	18h. 30m. to 20h. 30m.
	„ 27 ...	W.	15	21·0	14 35	W.	28·2	63	4h. 30m. to 19h. 30m.
Holyhead ...	February 7 ...	W.S.W.	22	23·3	21 45	W.S.W.	37·1	83	18h. 30m. 7th to 3h. 30m. 8th.
	December 3 ...	W.S.W.	20	21·6	19 40	W.S.W.	31·7	71	19h. 30m. to 21h. 30m.
	„ 4 ...	W.	14	23·3	12 45	W.N.W.	34·4	77	5h. 30m. to 17h. 30m.
Dwyran ...	February 7 ...	—	20	24·6	19 50	—	35·3	79	10h. 30m. to 22h. 30m.

m/s = metres per second.
m.p.h = miles per hour.
1 m/s = 2·24 m.p.h.

TABLE II.—*continued.*—OCCASIONS OF "STRONG GALE"—Winds of Mean Velocity, 20·8 metres per second, Force 9 and upwards.

District and Station.	Date, 1913.	Direction.	Maximum Hourly Mean.		Maximum Velocity in a gust.				Time during which velocity reached or exceeded 17·2 m.p.s. (39 miles per hour).
			Hour.	Velocity.	Time.	Direction.	Velocity.		
				m/s.	h. m.		m/s.	m.p.h.	
8. Pendennis Castle.	January 3–4 ...	—	23h., 24h. 3rd, 1h. 4th.	21·9	1 0	—	28·2	63	18h. 30m. 3rd to 2h. 30m. 4th.
	„ 9 ...	—	10, 11	21·0	18 40	—	25·5	57	3h. 30m. to 22h. 30m.
	„ 11 ...	—	4, 6, 7	21·0	3 40	—	25·9	58	20h. 30m. 10th to 7h. 30m. 11th.
	„ 14–15 ...	—	24	24·1	24 30	—	29·1	65	17h. 30m. 14th to 2h. 30m. 15th.
	February 7 ...	—	13	26·4	13 45	—	32·2	72	7h. 30m. to 19h. 30m.
	„ 9 ...	—	4	21·0	3 0	—	25·9	58	23h. 30m. 8th to 7h. 30m. 9th.
	March 4 ...	—	15	21·5	14 45	—	26·8	60	8h. 30m. to 24h. 30m.
	„ 6 ...	—	18	22·8	20 0	—	29·1	65	13h. 30m. to 20h. 30m.
	„ 14 ...	—	13	21·0	12 40	—	26·4	59	8h. 30m. to 14h. 30m.
	„ 15 ...	—	24	23·7	23 55	—	33·5	75	22h. 30m. 15th to 2h. 30m. 16th.
	„ 16-17 ...	—	1	25·5	0 55	—	32·2	72	22h. 30m. 16th to 1h. 30m. 17th.
	„ 18 ...	—	20, 23	21·5	22 50	—	28·6	64	16h. 30m. to 24h. 30m.
	„ 21 ...	—	14	25·9	10 40	—	30·0	67	5h. 30m. to 17h. 30m.
	April 15–16 ...	—	4	23·7	1 0	—	28·6	64	20h. 30m. 15th to 8h. 30m. 16th.
	„ 26 ...	—	16	26·4	15 35	—	32·2	72	6h. 30m. to 23h. 30m.
	May 8 ...	—	8, 10, 11	22·4	9 55	—	31·3	70	5h. 30m. to 14h. 30m.
	„ 30 ...	—	16	25·0	14 45	—	31·3	70	11h. 30m. to 18h. 30m.
	November 1–2 ...	—	1	21·9	1 20	—	27·3	61	20h. 30m. 1st to 2h. 30m. 2nd.
	„ 21 ...	—	7	21·0	6 15	—	25·0	56	18h. 30m. 20th to 8h. 30m. 21st.
	December 3 ...	—	18	26·4	17 35	—	33·1	74	2h. 30m. to 20h. 30m.
	„ 26 ...	—	22	23·7	21 45	—	30·4	68	10h. 30m. 26th to 1h. 30m. 27th.
Plymouth ...	May 8	—	8, 9	21·0	8 10	—	29·5	66	5h. 30m. to 10h. 30m.
10. Kingstown	February 7 ...	W.S.W.	20	27·5	—	—	—	—	15h. 30m. 7th to 1h. 30m. 8th.
	May 8	E.S.E.	10	23·9	—	—	—	—	7h. 30m. to 12h. 30m.
Quilty ...	February 7 ...	—	17	25·0	17 40	—	35·8	80	12h. 30m. to 20h. 30m.
	December 4 ...	—	7	21·0	8 35	—	32·2	72	2h. 30m. to 9h. 30m.
Roche's Point.	January 9 ...	—	10	24·6	9 15	—	31·3	70	1h. 30m. to 12h. 30m.
	„ 10 ...	—	22	22·8	22 0	—	29·1	65	17h. 30m. to 24h. 30m.
	„ 14 ...	—	21	25·9	20 25	—	33·5	75	13h. 30m. to 21h. 30m.
	February 7 ...	—	9	21·5	17 15	—	32·6	73	6h. 30m. to 10h. 30m.
Valencia ...	„ 7 ...	S.W.	16	24·6	—	—	—	—	13h. 30m. to 19h. 30m.
11. Scilly ...	January 14 ...	S.S.E.	21	21·7	21 55	S.S.E.	26·4	59	18h. 30m. to 22h. 30m.
	„ 31 ...	W.N.W.	4	20·9	1 20	W.N.W.	31·7	71	21h. 30m. 30th to 5h. 30m. 31st.
	May 30	W.S.W.	16	20·9	15 5	W.S.W.	27·3	61	13h. 30m. to 17h. 30m.
	December 3–4 ...	N.W.	5	22·9	1 35	N.W.	32·2	72	15h. 30m. 3rd to 12h. 30m. 4th.
	„ 29 ...	N.	5	20·9	6 50	N.	26·7	60	1h. 30m. to 7h. 30m.

NOTE.—Time is reckoned from midnight G.M.T. and the hours numbered consecutively 0, 1, . . 24.
m/s = metres per second.
m.p.h. = miles per hour.
1 m/s = 2·24 m.p.h.

TABLE III.—SQUALLS WITH GUSTS OF STORM FORCE (velocity of 55 miles per hour and above, 24·5 metres per second, force 10). The entries are additional to those in Table II.

Highest Velocity in a Gust recorded at M.O. Stations in the British Isles, 46·0 metres per second (103 miles per hour), at Pendennis, Falmouth, March 14th 1905.

District and Station.	Date, 1913.	During interval.	Number of gusts.	Maximum gust.				Mean velocity for the hour in which Maximum gust occurs.	
				Time of occurrence of gust.	Direction.	Velocity.			
						m/s.	m.p.h.	m/s.	m.p.h.
1 Aberdeen	January 10	20h. 45m. to 24h. 15m.	3	24h. 15m.	S.S.E.	25·5	57	15·2	34
	„ 11	—	Frequent gusts throughout day.	4h. 50m.	S.E.	30·4	68	17·9	40
	„ 12	—	1	4h. 30m.	S.E.	24·6	55	15·6	35
	„ 15	—	1	2h. 0m.	S.E.	25·0	56	16·1	36
	February 8	2h. 30m. to 7h. 15m.	Frequent gusts	4h. 20m.	W.N.W.	34·4	77	22·8	51
	March 4	—	1	18h. 30m.	S.W.	25·9	58	12·5	28
	„ 5	0h. 45m. to 22h. 20m.	6	0h. 50m.	W.S.W.	26·8	60	12·5	28
	„ 7	—	1	11h. 45m.	S.W.	25·0	56	14·3	32
	June 10	10h. 50m. to 14h. 35m.	17	13h. 35m.	W.N.W.	28·2	63	16·5	37
	November 17	11h. 40m. to 12h. 10m.	17	12h. 10m.	W.S.W.	29·1	65	16·5	37
	„ 18	19h. 50m. to 20h. 25m.	6	19h. 50m.	W.N.W.	26·4	59	16·5	37
	„ 20	—	1	2h. 50m.	S.S.W.	25·5	57	12·1	27
	December 3	—	1	11h. 50m.	S.W.	24·6	55	13·9	31
	„ 16	12h. 40m. to 13h. 50m.	5	12h. 45m.	W.N.W.	27·3	61	17·9	40
Rosyth	February 6	—	—	16h. 10m.	W.	26·4	59	11·2	25
	„ 8	—	—	1h. 10m.	W.	26·4	59	16·1	36
	„ 9	—	—	3h. 35m.	W.S.W.	25·0	56	13·4	30
	March 4	—	—	18h. 45m.	W.N.W.	29·1	65	13·4	30
	„ 5	—	—	3h. 45m.	W.N.W.	30·0	67	14·3	32
	„ 9	—	—	17h. 5m.	W.S.W.	27·8	61	17·9	40
	„ 19	—	—	22h. 5m.	W.S.W.	25·9	58	13·4	30
	June 7	—	—	14h. 45m.	W.	25·9	58	12·1	27
	„ 8	—	—	15h. 45m.	W.S.W.	25·0	56	14·3	32
	November 17	—	—	14h. 0m.	W.S.W.	25·5	57	13·4	30
	„ 18	17h. 50m. to 19h. 0m.	Frequent gusts	17h. 55m.	W.S.W.	28·6	64	15·6	35
	„ 20	2h. 40m. to 3h. 5 m.	3	2h. 40m.	W.S.W.	25·9	58	16·5	37
	„ 25	17h. 20m. to 22h. 45m.	3	22h. 45m.	W.S.W.	25·0	56	14·8	33
	„ 26	—	—	13h. 0m.	S.W.	27·3	61	13·9	31
	„ 29	17h. 0m. to 19h. 35m.	Frequent gusts	17h. 0m.	W.	26·8	60	16·1	36
	December 10	—	—	12h. 5m.	W.N.W.	24·6	55	17·9	40
	„ 16	6h. 45m. to 8h. 25m.	Frequent gusts	8h. 0m.	W.S.W.	31·3	70	17·9	40
2. Alnwick	January 11	13h. 45m. to 14h. 40m.	2	14h. 40m.	S.E.	25·9	58	16·1	36
	February 3	18h. 30m. to 20h. 35m.	5	18h. 30m.	W.S.W.	26·8	60	12·1	27
	„ 7	—	1	18h. 45m.	S.S.W.	24·6	55	11·6	26
	„ 8	—	1	3h. 15m.	W.N.W.	28·2	63	13·4	30
	March 3	—	1	6h. 30m.	S.W.	25·9	58	14·3	32
	November 20	4h. 50m. to 7h. 30m.	4	7h. 15m.	W.S.W.	28·2	63	11·6	26
	December 3	23h. 40m. to 24h. 30m.	7	24h. 25m.	W.N.W.	25·5	57	14·3	32
	„ 4	0h. 35m. to 0h. 40m.	2	0h. 40m.	W.N.W.	25·9	58	13·0	29
	„ 16	—	1	9h. 58m.	W.N.W.	25·0	56	12·2	27
South Shields ...	February 3	—	—	21h. 55m.	W.	27·3	61	17·0	38
	„ 7	—	—	24h. 15m.	W.	27·7	62	15·2	34
	„ 8	—	—	1h. 25m.	W.	33·1	74	20·6	46
	March 9	—	—	23h. 30m.	W.	25·0	56	16·5	37
	„ 17	—	—	16h. 10m.	N.N.E.	24·6	55	14·3	32
	„ 18	—	—	24h. 10m.	S.	24·6	55	12·5	28
	„ 19	—	—	12h. 5m.	W.S.W.	28·2	63	17·9	40
	June 10	—	—	12h. 30m.	N.N.W.	26·8	60	16·5	37
	November 2	—	—	23h. 0m.	S.W.	28·2	63	16·5	37
	„ 3	—	—	11h. 55m.	W.N.W.	27·3	61	17·9	40
	„ 18	—	—	14h. 20m.	W.N.W.	30·0	67	14·8	33
	December 12	10h. 25m. to 12h. 0m.	Frequent gusts	11h. 25m.	W.S.W.	27·3	61	19·2	43
	„ 16	—	—	8h. 20m.	N.W.	26·8	60	17·0	38
2. Spurn Head	March 6	20h. 55m. to 21h. 35m.	4	21h. 30m.	S.W.	25·5	57	17·9	40
	„ 15	—	1	22h. 55m.	S.	24·6	55	16·1	36
	„ 16	0h. 50m. to 21h. 5m.	4	2h. 5m.	S.W.	26·8	60	16·1	36
	„ 19	4h. 5m. to 15h. 25m.	Frequent gusts	13h. 30m.	W.N.W.	31·3	70	17·0	38
	„ 23	—	1	7h. 30m.	W.S.W.	25·5	57	16·1	36
	April 19	2h. 30m. to 12h. 25m.	Frequent gusts	12h. 20m.	W.	26·8	60	18·8	42
	„ 26	—	1	22h. 0m.	S.	25·0	56	16·1	36
	June 10	—	1	10h. 45m.	W.S.W.	24·6	55	17·9	40
	July 23	4h. 40m. to 8h. 50m.	8	6h. 45m.	W.N.W.	26·8	60	18·3	41
	November 2	24h. 5m. to 24h. 10m.	4	24h. 5m.	W.S.W.	26·4	59	15·2	34
	December 3	22h. 40m. to 24h. 10m.	Frequent gusts	24h. 0m.	W.	26·8	60	17·4	39
	„ 16	12h. 45m. to 12h. 50m.	2	12h. 45m.	W.N.W.	25·0	56	18·3	41
3. Gorleston	March 16	2h. 5m. to 2h. 15m.	2	2h. 5m.	—	25·0	56	17·4	39
	„ 19	6h. 5m. to 6h. 15m.	5	6h. 5m.	—	27·3	61	18·8	42
	„ 23	—	1	1h. 25m.	—	24·6	55	16·1	36

m/s = metres per second.
m.p.h. = miles per hour.
1 m/s = 2·24 m.p.h.

TABLE III.—*continued.*—SQUALLS WITH GUSTS OF STORM FORCE (velocity of 55 miles per hour and above, 24·5 metres per second, force 10). The entries are additional to those in Table II.

District and Station.	Date 1913.	During interval.	Number of gusts.	Maximum gust.				Mean velocity for the hour in which Maximum gust occurs.	
				Time of occurrence of gust.	Direction.	Velocity.			
						m/s.	m.p.h.	m/s.	m.p.h.
Shoeburyness ...	February 7	19h. 5m. to 20h. 30m.	11	19h. 5m.	—	26·8	60	18·8	42
	March 6	—	1	23h. 55m.	—	26·4	59	13·0	29
	,, 15	—	1	23h. 20m.	—	24·6	55	18·8	42
	,, 16	2h. 10m. to 4h. 35m.	21	4h. 10m.	—	26·8	60	18·3	41
	,, 17	—	1	8h. 10m.	—	25·5	57	16·5	37
	,, 19	4h. 30m. to 14h. 35m.	19	14h. 5m.	W.	27·7	62	13·9	31
	,, 22	21h. 35m. to 23h. 50m.	Frequent gusts	22h. 35m.	—	30·0	67	20·6	46
	,, 23	0h. 35m. to 1h. 25m.	3	0h. 35m.	—	26·4	59	16·5	37
	,, 29	15h. 35m. to 15h. 45m.	3	15h. 35m.	S.E.	26·4	59	14·8	33
5. Dover	January 30	22h. 30m. to 24h. 25m.	7	23h. 5m.	—	25·9	58	17·9	40
	February 2	15h. 5m. to 15h. 10m.	2	15h. 10m.	—	25·9	58	17·0	38
	,, 7	19h. 10m. to 21h. 25m.	19	19h. 55m.	—	28·2	63	20·1	45
	March 16	0h. 40m. to 5h. 0m.	Frequent gusts	2h. 10m.	—	29·1	65	18·8	42
	,, 17	6h. 35m. to 6h. 45m.	6	6h. 45m.	—	32·6	73	17·9	40
	,, 19	2h. 20m. to 12h. 10m.	Frequent gusts	7h. 5m.	—	28·2	63	20·1	45
	,, 22	21h. 45m. to 22h. 10m.	2	21h. 50m.	—	25·5	57	17·4	39
	April 7	14h. 20m. to 15h. 5m.	2	15h. 5m.	—	24·6	55	16·5	37
	,, 12	2h. 50m. to 4h. 35m.	4	2h. 55m. 4h. 40m.	—	25·5	57	17·9	40
	,, 16	12h. 0m. to 12h. 40m.	3	12h. 5m.	—	25·0	56	18·8	42
	December 3	20h. 5m. to 22h. 30m.	13	21h. 30m.	—	26·4	59	19·7	44
	,, 4	—	1	19h. 15m.	—	25·5	57	13·4	30
	,, 5	11h. 35m. to 13h. 0m.	2	11h. 40m.	—	25·5	57	13·4	30
	,, 26	23h. 15m. to 24h. 20m.	2	23h. 15m.	—	25·0	56	16·5	37
	,, 27	2h. 20m. to 2h. 35m.	2	2h. 20m.	—	25·5	57	17·0	38
Warlingham	February 2	—	1	15h. 15m.	—	24·6	55	11·2	25
	March 16	1h. 50m. to 3h. 0m.	2	3h. 0m.	—	26·8	60	13·9	31
	,, 19	—	1	10h. 55m.	—	26·8	60	11·2	25
	,, 22	21h. 10m. to 23h. 55m.	7	22h. 50m.	—	27·3	61	16·5	37
	November 21	—	1	10h. 50m.	—	25·0	56	12·5	28
	December 3	22h. 0m. to 22h. 5m.	5	22h. 0m.	—	26·4	59	13·5	30
Brighton	January 20	—	—	15h. 40m.	—	27·3	61	8·5	19
	March 17	—	—	6h. 5m.	—	26·4	59	13·4	30
	,, 19	—	—	6h. 50m.	—	25·5	57	14·3	32
	,, 22	—	—	21h. 0m.	—	27·7	62	16·5	37
	December 3	—	—	20h. 45m.	—	25·0	56	13·9	31
Kew	February 7	15h. 40m. to 17h. 5m.	2	17h. 5m.	S.S.W.	25·0	56	13·9	31
	March 16	2h. 0m. to 2h. 5m.	2	2h. 0m.	S.S.W.	25·0	56	15·2	34
	,, 22	20h. 50m. to 23h. 20m.	17	22h. 35m.	S.S.W.	30·0	67	18·3	41
6 Eskdalemuir	January 4	4h. 10m. to 5h. 5m.	6	4h. 25m.	—	25·5	57	17·9	40
	,, 7	9h. 20m. to 12h. 55m.	5	12h. 50m.	—	26·8	60	16·1	36
	,, 11	4h. 55m. to 6h. 25m.	2	4h. 55m.	—	25·0	56	15·2	34
	February 3	5h. 15m. to 11h. 55m.	25	5h. 45m.	—	28·2	63	19·7	44
	,, 7	16h. 10m. to 24h. 10m.	Frequent gusts	17h. 50m.	—	30·8	69	19·7	44
	,, 8	20h. 15m. to 24h. 30m.	8	24h. 5m.	—	28·2	63	18·3	41
	March 4	6h. 55m. to 20h. 40m.	12	19h. 40m.	—	26·8	60	17·9	40
	,, 5	3h. 35m. to 23h. 0m.	18	16h. 50m.	—	25·9	58	18·3	41
	,, 6	16h. 5m. to 19h. 20m.	5	19h. 5m.	—	25·5	57	15·6	35
	,, 9	14h. 50m. to 16h. 20m.	31	15h. 40m. 15h. 50m.	—	26·8	60	20·6	46
	,, 19	10h. 30m. to 16h. 40m.	26	16h. 35m.	—	28·2	63	15·6	35
	April 15	19h. 20m. to 20h. 50m.	10	19h. 45m.	—	27·3	61	16·5	37
	June 8	21h. 30m. to 21h. 55m.	5	21h. 40m.	—	26·8	60	17·0	38
	,, 28	22h. 30m. to 24h. 30m.	4	24h. 30m.	—	27·3	61	17·0	38
	,, 29	0h. 30m. to 3h. 40m.	Frequent gusts	0h. 45m.	—	28·2	63	20·1	45
	November 2	—	1	22h. 20m.	—	25·0	56	15·0	34
	,, 17	—	1	7h. 10m.	—	24·6	55	17·6	39
	,, 18	13h. 5m. to 19h. 20m.	50	17h. 5m.	—	29·5	66	20·0	45
	,, 19	20h. 45m. to 22h. 25m.	12	20h. 45m.	—	25·9	58	19·5	44
	,, 29	14h. 50m. to 17h. 35m.	26	15h. 0m.	—	26·8	60	20·3	45
	December 3	3h. 55m. to 23h. 25m.	34	5h. 20m. 23h. 25m.	—	27·4	61	19·9	45
	,, 9	11h. 40m. to 14h. 20m.	Frequent gusts	12h. 25m.	—	27·9	62	17·7	40
	,, 15	22h. 55m. to 23h. 0m.	6	22h. 55m.	—	27·8	62	15·2	34
	,, 16	7h. 5m. to 11h. 20m.	Frequent gusts	10h. 15m.	—	31·5	71	20·0	45
7 Southport	January 30	—	1	21h. 25m.	W.S.W.	25·5	57	11·2	25
	,, 31	—	1	2h. 20m.	W.N.W.	26·4	59	19·2	43
	February 5	17h. 10m. to 18h. 45m.	2	17h. 10m.	S.W.	25·5	57	11·6	26
	March 4	12h. 35m. to 18h. 15m.	37	16h. 10m.	S.W.	27·3	61	16·5	37

m/s = metres per second.
m.p.h. = miles per hour.
1 m/s = 2·24 m.p.h.

TABLE III.—*continued.*—SQUALLS WITH GUSTS OF STORM FORCE (velocity of 55 miles per hour and above, 24·5 metres per second, force 10). The entries are additional to those in Table II.

District and Station.	Date 1913.	During interval.	Number of gusts.	Maximum gust.				Mean velocity for the hour in which Maximum gust occurs.	
				Time of occurrence of gust.	Direction.	Velocity.			
						m/s.	m.p.h.	m/s.	m.p.h.
7. Southport—*cont.* ...	March 6	2h. 35m. to 24h. 20m.	Frequent gusts	19h. 40m.	S.	29·5	66	18·8	42
	„ 7	0h. 40m. to 8h. 35m.	„	7h. 5m.	S.W.	28·2	63	20·6	46
	„ 14	23h. 0m. to 24h. 25m.	„	23h. 0m.	W.	25·9	58	19·2	43
	„ 15	0h. 40m. to 23h. 45m.	„	23h. 35m.	W.S.W.	28·6	64	16·1	36
	„ 16	0h. 30m. to 6h. 20m.	„	4h. 5m.	W.	26·4	59	20·6	46
	„ 20	0h. 40m. to 3h. 55m.	„	2h. 45m.	W.S.W.	27·3	61	19·7	44
	„ 23	5h. 25m. to 5h. 40m.	2	5h. 40m.	W.	25·0	56	19·2	43
	April 19	5h. 50m. to 17h. 55m.	18	12h. 40m.	W.	26·4	59	18·3	41
	„ 26	16h. 35m. to 17h. 10m.	2	17h. 10m.	S.	25·5	57	15·6	35
	May 8	9h. 40m. to 14h. 25m.	38	12h. 35m.	S.E.	29·1	65	17·4	39
	June 10	2h. 30m. to 6h. 50m.	28	4h. 55m.	W.S.W.	28·2	63	19·7	44
	November 3	0h. 35m. to 0h. 40m.	2	0h. 35m.	W.	25·5	57	17·0	38
	„ 14	—	1	18h. 25m.	W.	28·6	64	14·8	33
	„ 15	16h. 35m. to 23h. 30m.	37	20h. 0m.	W.	35·3	79	20·1	45
	„ 16	—	1	0h. 50m.	W.N.W.	24·6	55	17·9	40
	December 5	4h. 45m. to 6h. 40m.	18	5h. 30m.	W.S.W.	25·9	58	19·7	44
	„ 10	—	1	3h. 5m.	W.N.W.	24·6	55	17·4	39
	„ 16	10h. 35m. to 14h. 0m.	35	12h. 50m.	W.N.W.	26·4	59	20·1	45
Holyhead	January 30	24h. 20m. to 24h. 30m.	4	24h. 25m.	W.	29·5	66	18·3	41
	„ 31	2h. 10m. to 2h. 45m.	4	2h. 10m.	W.S.W.	26·4	59	17·9	40
	February 5	17h. 10m. to 17h. 20m.	4	17h. 15m.	W.S.W.	26·4	59	16·5	37
	March 6	17h. 55m. to 18h. 35m.	11	18h. 30m.	S.S.W.	26·8	60	17·0	38
	„ 15	9h. 25m. to 24h. 5m.	6	21h. 10m.	S.S.W.	25·5	57	17·0	38
	„ 18	22h. 45m. to 22h. 50m.	3	22h. 50m.	S.	25·0	56	16·1	36
	„ 19	4h. 35m. to 18h. 55m.	52	12h. 0m.	W.S.W.	31·3	70	19·7	44
	„ 20	—	1	0h. 45m.	W.S.W.	25·5	57	17·0	38
	April 5	9h. 40m. to 10h. 30m.	2	10h. 30m.	N.E.	25·5	57	18·8	42
	„ 26	14h. 55m. to 16h. 15m.	2	16h. 15m.	S.	24·6	55	15·6	35
	May 30	19h. 35m. to 21h. 40m.	17	20h. 0m.	S.	27·7	62	18·3	41
	November 2	18h. 50m. to 20h. 50m.	30	20h. 5m.	W.S.W	33·5	75	19·7	44
	„ 13	3h. 30m. to 4h. 35m.	3	4h. 35m.	W.N.W.	25·5	57	17·4	39
	„ 15	19h. 0m. to 20h. 25m.	13	19h. 20m.	W.S.W.	26·8	60	17·9	40
	„ 18	12h. 45m. to 19h. 0m.	36	13h. 25m.	W.S.W.	30·4	68	19·7	44
	„ 19	23h. 10m. to 23h. 20m.	2	23h. 20m.	S.W.	25·9	58	16·1	36
	„ 20	0h. 45m. to 3h. 35m.	7	1h. 15m.	S.S.W.	26·8	60	17·0	38
	December 5	—	1	5h. 20m.	W.	24·6	55	17·9	40
	„ 16	6h. 55m. to 7h. 20m.	2	6h. 55m.	W.	25·5	57	18·3	41
	„ 26	15h. 50m. to 19h. 45m.	16	19h. 30m.	S.W.	27·3	61	17·9	40
	„ 27	12h. 10m. to 15h. 45m.	14	15h. 30m.	W.S.W.	25·9	58	18·8	42
	„ 28	—	1	20h. 25m.	N.	24·6	55	15·6	35
Dwyran	January 3	—	—	24h. 0m.	—	24·6	55	16·5	37
	„ 11	—	—	7h. 40m.	—	24·6	55	—	—
	„ 30	—	—	15h. 45m.	—	26·8	60	19·2	43
	February 5	—	—	15h. 50m.	—	26·4	59	15·6	35
	„ 6	—	—	13h. 0m.	—	24·6	55	15·6	35
	March 3	—	—	9h. 55m.	—	24·6	55	17·9	40
	„ 4	—	—	13h. 5m.	—	26·4	59	19·2	43
	„ 6	—	—	18h. 40m.	—	34·0	76	—	—
	„ 15	—	—	23h. 0m.	—	25·0	56	—	—
	„ 18	—	—	24h. 15m.	—	24·6	55	18·3	41
	„ 19	—	—	4h. 15m.	—	24·6	55	16·5	37
	April 16	—	—	1h. 40m.	—	25·5	57	17·9	40
8. Pendennis	January 10	—	1	24h. 20m.	—	24·6	55	18·3	41
	„ 16	3h. 25m. to 18h. 5m.	8	12h. 50m.	—	24·6	55	17·4	39
	„ 17	—	1	8h. 40m.	—	24·6	55	15·2	34
	„ 19	9h. 5m. to 24h. 20m.	22	21h. 20m.	—	29·5	66	19·2	43
	„ 30	15h. 35m. to 24h. 10m.	30	22h. 35m.	—	30·8	69	15·6	35
	„ 31	2h. 0m. to 14h. 10m.	3	2h. 0m.	—	28·2	63	13·0	29
	February 2	9h. 45m. to 12h. 25m.	17	9h. 45m.	—	27·7	62	19·7	44
	„ 6	—	1	17h. 55m.	—	25·0	56	19·2	43
	March 3	8h. 50m. to 15h. 40m.	24	12h. 50m.	—	26·8	60	20·1	45
	„ 19	5h. 15m. to 17h. 5m.	40	17h. 5m.	—	29·5	66	18·3	41
	„ 20	8h. 20m. to 20h. 40m.	7	9h. 30m.	—	28·2	63	14·3	32
	„ 22	13h. 50m. to 19h. 30m.	14	18h. 50m.	—	26·8	60	19·2	43
	„ 28	4h. 25m. to 8h. 15m.	2	8h. 15m.	—	24·6	55	17·9	40
	April 18	1h. 55m. to 16h. 35m.	4	15h. 30m. 16h. 35m.	—	24·6	55	18·3	41
	June 9	23h. 30m. to 24h. 30m.	5	24h. 30m.	—	25·9	58	19·7	44
	„ 10	0h. 40m. to 5h. 10m.	14	4h. 10m.	—	26·4	59	20·6	46
	July 30	5h. 35m. to 5h. 40m.	4	5h. 40m.	—	26·8	60	15·2	34

m/s = metres per second.
m.p.h. = miles per hour.
1 m/s = 2·24 m.p.h.

TABLE III.—*continued.*—SQUALLS WITH GUSTS OF STORM FORCE (velocity of 55 miles per hour and above, 24·5 metres per second, force 10). The entries are additional to those in Table II.

District and Station.	Date, 1913.	During interval.	Number of gusts.	Maximum gust.				Mean velocity for the hour in which Maximum gust occurs.	
				Time of occurrence of gust.	Direction.	Velocity.			
						m/s.	m.p.h.	m/s.	m.p.h.
8. Pendennis—*cont.*	October 28	24h. 20m. to 24h. 25m.	5	24h. 20m.	—	25·0	56	17·4	39
	„ 29	6h. 20m. to 21h. 35m.	Frequent gusts	6h. 45m.	—	26·8	60	20·6	46
	November 6	—	1	10h. 40m.	—	24·6	55	14·3	32
	„ 11	4h. 5m. to 20h. 10m.	Frequent gusts	14h. 40m.	—	30·0	67	17·9	40
	„ 12	—	1	4h. 25m.	—	25·0	56	15·2	34
	„ 15	—	1	0h. 40m.	—	25·5	57	13·4	30
	„ 18	10h. 15m. to 11h. 40m.	8	10h. 40m.	—	26·4	59	20·6	46
	December 4	2h. 35m. to 12h. 15m.	Frequent gusts	5h. 50m.	—	29·5	66	17·9	40
	„ 5	—	1	7h. 40m.	—	25·5	57	13·9	31
	„ 27	0h. 30m. to 1h. 5m.	Frequent gusts	0h. 55m.	—	30·4	68	18·8	42
	„ 29	4h. 5m. to 4h. 10m.	3	4h. 10m.	—	25·5	57	16·1	36
Plymouth	January 15	—	—	2h. 30m.	—	25·9	58	17·0	38
	„ 19	—	—	10h. 30m.	—	25·9	58	16·5	37
	February 7	—	—	13h. 55m.	—	25 9	58	20·6	46
	March 17	—	—	2h. 0m.	—	27·7	62	15·2	34
	„ 18	—	—	24h. 25m.	—	24·6	55	19·2	43
	April 26	—	—	16h. 15m.	—	27·3	61	20·6	46
	July 30	—	—	8h. 45m.	—	27·3	61	14·8	33
	October 29	—	—	11h. 5m.	—	25·0	56	17·9	40
	November 11	—	—	16h. 15m.	—	25·5	57	14·8	33
	December 29	—	—	4h. 15m.	—	25·5	57	11·6	26
10. Quilty	January 9	4h. 15m. to 10h 0m.	Frequent gusts	9h. 10m.	—	27·7	62	19·7	44
	„ 10	—	1	21h. 45m.	—	25·0	56	17·9	40
	„ 14	—	1	18h. 45m.	—	25·5	57	18·3	41
	„ 30	19h. 50m. to 21h. 35m.	10	20h. 50m.	—	28·6	64	17·4	39
	„ 31	5h. 40m. to 23h. 20m.	Frequent gusts	9h. 35m.	—	30·0	67	16·5	37
	February 6	18h. 15m. to 18h. 20m.	2	18h. 15m.	—	29·1	65	16·1	36
	March 3	—	1	3h. 50m.	—	24·6	55	15·6	35
	„ 4	15h. 40m. to 15h. 45m.	2	15h. 45m.	—	27·3	61	15·2	34
	„ 5	3h. 0m. to 3h. 5m.	3	3h. 5m.	—	26·8	60	15·2	34
	„ 6	20h. 35m. to 20h. 40m.	3	20h. 40m.	—	25·5	57	14·8	33
	„ 14	—	1	15h. 25m.	—	26·8	60	14·3	32
	„ 15	2h. 25m. to 22h. 55m.	8	20h. 10m.	—	27·7	62	13·0	29
	„ 16	—	1	6h. 40m.	—	25·5	57	13·0	29
	„ 19	4h. 30m. to 22h. 50m.	22	5h. 10m.	—	30·8	69	18·3	41
	April 26	12h. 35m. to 15h. 20m.	10	13h. 20m.	—	30·4	68	17·0	38
	May 8	—	1	15h. 55m	—	24·6	55	16·1	36
	September 14	15h. 30m. to 17h. 0m.	2	17h. 0m.	—	24·6	55	18·3	41
	November 2	15h. 50m. to 19h. 55m.	6	16h. 5m.	—	25·5	57	17·4	39
	„ 14	4h. 25m. to 22h. 40m.	3	5h. 35m.	—	27·3	61	15·2	34
	„ 18	8h. 10m. to 14h. 0m.	6	8h. 10m.	—	25·9	58	17·4	39
	„ 23	16h. 10m. to 16h. 15m.	2	16h. 10m.	—	25·9	58	14·3	32
	December 3	16h. 50m. to 24h. 30m.	14	24h. 20m.	—	27·7	62	18·3	41
	„ 26	13h. 35m. to 15h. 30m.	6	15h. 10m.	—	25·5	57	17·9	40
	„ 27	—	1	1h. 45m.	—	24·6	55	14·8	33
Roche's Point ..	January 3	17h. 40m. to 19h. 50m.	9	19h. 45m.	—	26·4	59	17·0	38
	„ 19	5h. 0m. to 15h. 55m.	24	11h. 35m.	—	27·3	61	19·7	44
	March 6	14h. 50m. to 15h. 10m.	10	15h. 5m.	—	28·6	64	18·3	41
	„ 28	—	1	3h. 15m.	—	25·5	57	17·0	38
	April 26	—	1	12h. 40m.	—	24·6	55	14·8	33
	September 15	13h. 50m. to 13h. 55m.	5	13h. 50m.	—	25·5	57	19·7	44
	October 10	10h. 35m. to 17h. 10m.	21	16h. 40m.	—	27·3	61	20·6	46
	November 2	15h. 25m. to 16h. 50m.	5	16h. 5m.	—	25·9	58	17·4	39
	„ 23	12h. 50m. to 13h. 50m.	7	13h. 10m.	—	24·6	55	20·1	45
	December 3	—	1	15h. 30m.	—	24·6	55	15·6	35
	„ 4	2h. 5m. to 5h. 40m.	2	5h. 40m.	—	25·5	57	11·6	26
11. Scilly	January 30	21h. 50m. to 24h. 0m.	8	21h. 55m. 23h. 50m.	W.N.W.	26·4	59	17·4	39
	March 15	3h. 0m. to 4h. 15m.	13	3h. 0m.	W.N.W.	30·4	68	16·1	36
	„ 16	3h. 40m. to 24h. 25m.	6	3h. 50m.	W.	27·7	62	16·5	37
	„ 17	—	1	1h. 10m.	N.N.W.	24·6	55	16·1	36
	„ 19	—	1	8h. 35m.	W.N.W.	24·6	55	15·6	35
	„ 20	20h. 45m. to 20h. 50m.	3	20h. 45m.	W.S.W.	30·4	68	13·0	29
	„ 22	16h. 45m. to 16h. 50m.	2	16h. 50m.	N.W.	25·0	56	17·9	40
	October 28	—	1	23h. 0m.	S.S.W.	24·5	55	14·8	33
	November 2	—	1	19h. 30m.	W.	25·2	56	12·7	28
	„ 6	4h. 55m. to 19h. 55m.	25	18h. 50m.	W.N.W.	29·0	65	18·4	41
	„ 12	22h. 10m. to 23h. 50m.	4	23h. 50m.	N.W.	27·0	60	14·6	33
	„ 13	—	1	3h. 0m.	N.N.W	25·0	56	14·0	31
	„ 14	22h. 30m. to 24h. 20m.	8	23h. 30m.	N.W.	28·4	64	17·1	38

NOTE.—Time is reckoned from midnight G.M.T. and the hours numbered consecutively 0, 1, . . 24.
m/s = metres per second.
m.p.h. = miles per hour.
1 m/s = 2·24 m.p.h.

TABLE III (*a*).—HIGHEST VELOCITY in a GUST of STORM FORCE (velocity of 55 miles per hour or more, 24·5 metres per second, Force 10), during each of the years 1906–1913.

District and Station.	1906.			1907.			1908.			1909.			1910.			1911.			1912.			1913.		
	Velocity.		Date.	Velocity.		Date.	Velocity.		Date.	Velocity.		Date.	Velocity.		Date.	Velocity.		Date.	Velocity.		Date.	Velocity.		Date.
	m/s.	m.p.h.		m/s.	m.p.h.		m/s.	m.p.h.		m/s.	m.p.h.		m/s.	m.p.h.		m/s.	m.p.h.		m/s.	m.p.h.		m/s.	m.p.h.	
1. Aberdeen ...	—	—	—	—	—	—	35·3	79	Jan. 6	31·3	70	Nov. 12	29·5	66	Feb. 20	31·3	70	Feb. 17	33·5	75	Nov. 26	34·4	77	Feb. 8
Rosyth ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38·0	85	Nov. 26	31·3	70	Dec. 16
2. Alnwick ...	—	—	—	27·7	62	Nov. 12	25·9	58	Feb. 24	29·5	66	Nov. 12 Dec. 3	28·6	64	Feb. 17	32·6	73	Nov. 5	31·7	71	Apr. 8	28·2	63	Feb. 8
South Shields	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34·9	78	Nov. 5	36·2	81	Apr. 8	33·1	74	Nov. 20 Feb. 8
3. Spurn Head..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31·3	70	Mar. 19
Gorleston ...	—	—	—	—	—	—	28·6	64	Nov. 23	29·1	65	Dec. 3	27·7	62	Feb. 20	28·6	64	Sept. 30	27·3	61	Jan. 17	27·3	61	Mar. 19
Shoeburyness	26·8	60	Jan. 6	30·0	67	Dec. 14	30·0	67	Feb. 22	32·2	72	Dec. 3	31·3	70	Feb. 20	27·3	61	Dec. 10, 20.	27·3	61	Mar. 4	30·0	67	Mar. 22
4. Pyrton Hill...	—	—	—	—	—	—	*	*	*	29·5	66	Dec. 3	*	*	*	26·8	60	Nov. 5	25·9	58	Mar. 4	*	*	*
5. Dover ...	—	—	—	—	—	—	30·8	69	Sept. 1	30·0	67	Dec. 3	32·2	72	Jan. 11	31·7	71	Jan. 12	30·0	67	Mar. 4	32·6	73	Mar. 17
Warlingham	—	—	—	—	—	—	—	—	—	---	—	—	*	*	*	*	*	*	26·8	60	Nov. 26	27·3	61	Mar. 22
Brighton ...	—	—	—	—	—	—	—	—	—	27·3	61	Oct. 23	30·4	68	Feb. 20 21.	28·6	? 64	Dec. 10	29·1	65	Dec. 26	27·7	62	Mar. 22
Kew... ...	*	*	*	*	*	*	25·9	58	June 1	26·4	59	Dec. 3	28·6	64	Feb. 20	*	*	*	26·8	60	Mar. 4	30·0	67	Mar. 22
6. Eskdalemuir	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40·2	90	Nov. 5	34·9	78	Apr. 8 Dec. 24	36·7	82	Feb. 8
7. Southport ...	—	—	—	36·2	81	Mar. 15	36·2	81	Feb. 22	34·0	76	Dec. 3	38·0	85	Feb. 21	35·8	80	Nov. 5	29·5	66	Apr. 8 Dec. 24	38·4	86	Feb. 7
Holyhead ...	30·4	68	Nov. 15	33·5	75	Feb. 20	36·2	81	Feb. 22	30·8	69	Dec. 3	30·4	68	Feb. 17	33·5	75	Nov. 5	33·5	75	Nov. 10	37·1	83	Feb. 7
Dwyran ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	†31·7	71	Dec. 6, 7	33·5	75	Nov. 26	35·3	79	Feb. 7
8. Pendennis ...	38·0	85	Jan. 6	33·1	74	Jan. 2	34·9	78	Aug. 31	35·3	79	Apr. 20	38·9	87	Feb. 19	34·4	77	Dec. 10, 13.	43·8	98	Mar. 4	33·5	75	Mar. 15
Plymouth ...	—	—	—	—	—	—	25·9	58	Feb. 27 Mar. 9	29·5	66	Oct. 23	34·0	76	Dec. 13	28·6	64	Apr. 18	36·7	82	Dec. 26	29·5	66	May 8
10. Quilty ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34·9	78	Dec. 5	39·3	88	Dec. 24	35·8	80	Feb. 7
Roche's Point	32·2	72	Feb. 10	30·4	68	Oct. 18	31·3	70	Mar. 6	32·6	73	Dec. 2	30·4	68	Oct. 31	39·3	88	Dec. 18	29·5	66	Oct. 21 Dec. 24	33·5	75	Jan. 14
11. Scilly ...	36·2	81	Jan. 6	34·9	78	Feb. 20	37·6	84	Feb. 28	40·2	90	Oct. 23	38·4	86	Feb. 20	32·6	73	Dec. 13	39·3	88	Dec 26	32·2	72	Dec. 4

* No gusts of storm force.

† Station at Llaneugrad previous to July, 1911.

TABLE IV.—MAXIMUM VELOCITY in a GUST during each Month of 1913. (Highest velocity in a gust recorded at M.O. Stations in the British Isles : 46·0 m.p.s. at Pendennis, Falmouth, 14th March, 1905.)

District and Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1. Aberdeen	30·4	**34·4**	26·8	22·4	22·8	28·2	22·4	16·1	17·9	18·8	29·1	27·3
Rosyth	24·1	26·4	30·0	23·2	22·4	25·9	12·5	19·7	17·9	20·1	28·6	**31·3**
2. Alnwick	25·9	**28·2**	25·9	21·5	17·4	20·1	22·8	15·6	15·6	17·0	**28·2**	25·9
South Shields	28·2	**33·1**	28·2	22·8	19·7	26·8	21·9	16·5	20·1	21·0	30·0	32·2
Spurn Head	—	—	**31·3**	26·8	18·8	25·0	26·8	14·8	17·0	19·7	26·4	26·8
3. Gorleston	26·4	23·2	**27·3**	22·8	17·0	18·3	20·1	14·8	17·9	17·4	21·5	23 7
Shoeburyness	22·4	26·8	**30·0**	22·4	15·6	20·1	19·7	13·9	19·7	18·8	26·8	24·1
4. Pyrton Hill	18·3	19·2	**24·1**	22·8	13·9	17·9	10·7	10·3	9·8	12·1	18·3	20·6
5. Dover	25·9	28·2	**32·6**	25·5	22·4	22·8	18·8	16·5	18·3	20·6	22·4	26·4
Warlingham	22·4	24·6	**27·3**	20·6	16·5	17·0	10·7	13·0	14·3	21·5	25·0	26·4
Brighton	27·3	23·7	**27·7**	21·9	21·5	21·0	17·0	16·1	16·1	18·8	20·1	25·0
Kew	19·2	25·0	**30·0**	20·6	16·5	16·1	15·2	13·4	15·2	15·6	17·9	21·0
South Kensington	14·3	16·5	**21·0**	17·9	15·2	13·9	11·2	9·8	12·8	13·4	14·3	13·0
6. Eskdalemuir	26·8	**36·7**	28·6	27·3	23·7	28·2	16·5	19·2	21·0	22·8	29·4	32·3
7. Southport	26·4	**38·4**	34·4	26·4	29·1	28·2	17·9	20·6	19·2	20·6	35·3	36·7
Holyhead	29·5	**37·1**	31·3	25·5	27·7	22·4	17·9	17·4	21·5	21·0	33·5	34·4
Dwyran	26·8	**35·3**	34·0	—	—	—	—	—	—	—	—	—
8. Pendennis	30·8	32·2	**33·5**	32·2	31·3	26·4	26·8	20·1	20·6	26·8	30·0	33·1
Plymouth	25·9	25·9	27·7	27·3	**29·5**	20·6	27·3	15·2	17·4	25·0	25·5	25·5
10. Quilty	30·0	**35·8**	30·8	30·4	24·6	24·1	15·6	18·8	24·6	23·2	27·3	32·2
Roche's Point	**33·5**	32·6	28·6	24·6	22·8	21·9	19·2	17·4	25·5	27·3	25·9	25·5
11. Scilly	31·7	23·2	30·4	21·0	27·3	19·7	16·5	21·5	22·8	24·5	29·0	**32·2**

TABLE V.—MAXIMUM VALUE of the MEAN VELOCITY for an Hour measured as in Table II. during each Month of 1913. (Highest mean velocity recorded at M.O. Stations in the British Isles : 34·9 m.p.s. at Fleetwood on 22nd December, 1894.)

District and Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
0. Deerness†	**23·9**	22·3	23·3	19·3	19·3	15·7	12·8	12·5	14·1	15·1	20·0	17·4
1. Aberdeen*	18·3	**21·9**	15·6	13·4	15·6	17·4	13·4	7·5	11·6	12·1	16·5	17·9
Rosyth*	16·5	17·0	**17·9**	13·0	14·8	15·2	8·5	10·7	11·2	13·9	**17·9**	**17·9**
2. Alnwick*	**16·1**	13·4	14·3	12·5	10·3	10·3	13·0	8·5	9·4	10·0	13·0	14·3
South Shields*	21·0	**22·4**	18·8	14·3	15·2	16·5	14·8	11·2	12·5	16·5	18·8	21·9
3. Spurn Head*	—	—	17·9	**18·8**	15·6	17·9	18·3	11·6	12·1	14·3	15·6	18·3
Yarmouth†	**22·3**	17·7	12·5	17·7	14·4	10·8	8·9	8·5	12·1	13·8	11·1	14·4
Gorleston*	**21·0**	16·5	18·8	15·6	13·0	14·8	13·4	10·1	13·9	13·9	13·9	16·5
Shoeburyness*	17·0	**20·6**	**20·6**	17·0	12·1	14·8	10·7	10·3	13·0	13·0	13·9	18·8
4. Pyrton Hill*	10·7	12·1	**15·6**	11·2	8·0	11·6	6·7	7·2	6·6	8·2	9·3	11·6
5. Dover*	19·2	20·1	**21·5**	18·8	16·1	15·6	12·5	12·1	13·9	15·2	17·4	19·7
Warlingham*	12·1	14·3	**16·5**	11·6	9·8	10·3	5·4	7·6	8·5	11·2	12·5	14·3
Brighton*	13·4	13·4	**16·5**	13·4	13·4	12·5	10·3	10·7	9·4	11·6	11·6	14·3
Kew*	11·2	13·9	**18·3**	12·5	10·7	9·4	7·7	8·5	7·4	8·5	10·0	12·1
South Kensington*	6·7	8·9	**10·3**	8·9	7·6	7·5	5·0	5·4	5·5	6·6	6·2	6·6
6. Eskdalemuir†	17·9	21·0	20·6	17·0	15·2	20·1	11·6	13·4	14·3	15·2	20·3	**23·5**
Glasgow†	11·1	**12·5**	12·1	—	—	—	—	—	—	—	—	—
7. Fleetwood†	17·0	24·6	19·3	19·3	18·4	17·4	13·8	13·1	10·5	12·5	23·3	**25·2**
Southport*	19·7	**27·7**	21·0	19·2	17·0	19·7	13·4	14·3	11·6	13·0	23·7	25·0
Stonyhurst†	14·1	**15·7**	13·8	—	—	—	—	—	—	—	—	—
Holyhead*	18·3	**25·9**	19·7	18·8	18·3	15·6	13·9	12·1	14·8	14·8	19·7	23·2
Dwyran*	19·2	**24·6**	20·1	—	—	—	—	—	—	—	—	—
8. Falmouth*	12·5	13·1	**14·4**	12·8	**14·4**	11·1	8·2	9·8	8·9	8·9	12·5	13·4
Pendennis Castle*	24·1	**26·4**	25·9	**26·4**	25·0	20·6	17·0	16·5	16·5	20·6	21·9	**26·4**
Plymouth*	17·0	20·6	19·2	20·6	**21·0**	13·9	15·6	11·6	12·5	17·9	17·0	16·5
9. Armagh†	**12·1**	11·1	11·8	11·1	11·5	7·9	3·6	4·3	8·2	7·9	10·8	10·5
10. Dublin, Phœnix Park†	12·1	**15·4**	12·5	13·8	11·7	9·6	6·3	6·3	7·9	8·3	11·7	11·7
Kingstown†	17·7	**27·5**	18·0	16·4	23·9	19·7	10·2	12·5	13·8	17·4	18·7	19·7
Quilty*	19·7	**25·0**	18·3	17·9	16·5	16·5	11·2	12·5	18·3	17·4	17·4	21·0
Roche's Point*	**25·9**	21·5	19·2	16·5	16·5	13·4	13·9	12·1	19·7	20·6	20·1	17·4
Valencia†	19·3	**24·6**	16·7	17·0	13·4	16·1	10·2	9·2	14·4	13·8	16·1	15·7
11. Scilly*	18·3	17·0	17·9	14·3	17·0	13·9	12·5	13·4	13·9	15·0	19·0	**22·0**
Gibraltar*	**20·6**	16·5	20·1	16·1	11·6	13·4	15·2	13 4	15·6	**20·6**	14·3	19·2
St. Helena†	13·4	11·7	13·4	14·2	14·2	12·5	13·4	12·5	14·2	**15·9**	13·8	13·8

* Dines Pressure Tube Anemometer. † Robinson Cup Anemometer.

TABLE VI.—SUMMARY of the RECORDS OF WIND DIRECTION AND VELOCITY in the Year 1913.

NUMBER OF HOURS during which the MEAN Hourly Velocity of the Wind from different directions came within the limits assigned for the several numbers of the Beaufort Scale.

DEERNESS.

Force by Beaufort Scale.	Corresponding Mean Velocity. In metres per sec.	Total Number of Hours recorded during the Month from																All Dir.
		NNE.	NE.	ENE.	E.	ESE.	SE.	SSE.	S.	SSW.	SW.	WSW.	W.	WNW.	NW.	NNW.	N.	
0	< 0·3	Direction for Forces 0–1 uncertain owing to instrumental friction.															59	
1	0·3– 1·5																623	
2	1·6– 3·3	60	61	66	59	68	128	132	180	124	128	84	80	109	114	112	129	1,634
3	3·4– 5·4	49	67	45	76	89	120	159	171	116	143	75	116	89	109	110	159	1,693
4	5·5– 7·9	60	32	24	32	45	147	172	135	219	164	95	140	152	99	94	118	1,728
5	8·0–10·7	26	42	11	11	21	106	178	176	164	104	89	116	96	94	48	58	1,340
6	10·8–13·8	10	9	1	4	121	123	209	87	72	64	88	112	69	43	18	30	1,066
7	13·9–17·1	2	—	—	1	27	48	62	14	8	14	43	53	24	17	6	17	336
8	17·2–20·7	—	—	—	—	11	81	28	—	1	—	14	13	5	7	—	—	160
9	20·8–24·4	—	—	—	—	1	22	—	—	—	—	3	1	1	—	—	—	28
10	24·5–28·4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	28·5–33·5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	33·6 or above.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ALL FORCES ...		207	211	147	183	383	781	940	763	704	617	491	631	545	483	388	511	8,667

No. of hours of missing or defective record 93.

ABERDEEN.

Force by Beaufort Scale.	Corresponding Mean Velocity. In metres per sec.	Total Number of Hours recorded during the Month from																All Dir.
		NNE.	NE.	ENE.	E.	ESE.	SE.	SSE.	S.	SSW.	SW.	WSW.	W.	WNW.	NW.	NNW.	N.	
0	< 0·3	Direction for Forces 0–1 uncertain owing to instrumental friction.															26	
1	0·3– 1·5																1,350	
2	1·6– 3·3	35	44	107	105	176	165	333	446	432	339	190	171	179	212	203	169	3,306
3	3·4– 5·4	18	25	44	54	24	101	278	327	295	173	151	102	120	229	141	85	2,167
4	5·5– 7·9	12	22	26	28	21	67	203	84	152	172	100	88	125	103	48	31	1,282
5	8·0–10·7	1	10	12	17	52	77	55	—	65	50	11	16	83	35	6	3	453
6	10·8–13·8	—	4	1	6	61	33	2	—	—	11	1	3	28	9	—	—	159
7	13·9–17·1	—	—	—	—	5	5	—	—	—	—	—	—	4	—	—	—	14
8	17·2–20·7	—	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	3
9	20·8–24·4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	24·5–28·4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	28·5–33·5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	33·6 or above.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ALL FORCES ...		66	105	190	210	339	448	871	857	944	745	453	380	542	588	398	288	8,760

KEW.

Force by Beaufort Scale.	Corresponding Mean Velocity. In metres per sec.	Total Number of Hours recorded during the Month from																All Dir.
		NNE.	NE.	ENE.	E.	ESE.	SE.	SSE.	S.	SSW.	SW.	WSW.	W.	WNW.	NW.	NNW.	N.	
0	< 0·3	Direction for Forces 0–1 uncertain owing to instrumental friction.															185	
1	0·3– 1·5																1,663	
2	1·6– 3·3	215	106	122	158	118	130	114	191	269	330	363	271	123	125	110	208	2,953
3	3·4– 5·4	149	178	109	123	69	57	84	211	200	375	194	154	62	68	40	170	2,243
4	5·5– 7·9	108	102	88	47	21	16	56	150	227	236	110	46	23	23	12	39	1,304
5	8·0–10·7	62	14	9	5	—	1	4	50	109	64	10	15	1	1	—	9	354
6	10·8–13·8	4	3	—	—	—	—	—	6	26	9	2	4	—	—	—	3	57
7	13·9–17·1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	17·2–20·7	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	1
9	20·8–24·4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	24·5–28·4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	28·5–33·5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	33·6 or above.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ALL FORCES ...		538	403	328	333	208	204	258	608	831	1,015	679	490	209	217	162	429	8,760

TABLE VI.—*continued.*—SUMMARY of the RECORDS OF WIND DIRECTION AND VELOCITY in the Year 1913.

HOLYHEAD.

Force by Beaufort Scale.	Corresponding Mean Velocity. In metres per sec.	Total Number of Hours recorded during the Month from NNE.	NE.	ENE.	E.	ESE.	SE.	SSE.	S.	SSW.	SW.	WSW.	W.	WNW.	NW.	NNW.	N.	All Dir.
0	<0·3	Direction for Forces 0–1 uncertain owing to instrumental friction.																16
1	0·3– 1·5																	459
2	1·6– 3·3	73	54	84	120	53	69	58	106	133	62	98	109	69	108	155	104	1,455
3	3·4– 5·4	91	74	105	83	48	73	85	153	250	166	149	84	66	76	119	78	1,700
4	5·5– 7·9	72	86	159	75	35	66	192	300	329	308	199	140	88	66	152	107	2,374
5	8·0–10·7	48	45	112	69	24	43	117	174	213	243	146	134	123	47	63	53	1,654
6	10·8–13·8	20	32	60	19	5	24	42	67	134	70	106	114	100	27	20	22	862
7	13·9–17·1	—	11	1	—	4	3	2	5	9	5	40	57	14	26	1	15	193
8	17·2–20·7	—	4	—	—	—	—	—	—	2	1	9	9	9	2	—	—	36
9	20·8–24·4	—	—	—	—	—	—	—	—	—	—	4	1	1	—	—	—	6
10	24·5–28·4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	28·5–33·5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	33·6 or above.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ALL FORCES ...		304	306	521	366	169	278	496	805	1,070	855	751	648	470	352	510	379	8,755

No. of hours of missing or defective record 5.

VALENCIA.

Force by Beaufort Scale.	Corresponding Mean Velocity. In metres per sec.	Total Number of Hours recorded during the Month from NNE.	NE.	ENE.	E.	ESE.	SE.	SSE.	S.	SSW.	SW.	WSW.	W.	WNW.	NW.	NNW.	N.	All Dir.
0	<0·3	Direction for Forces 0–1 uncertain owing to instrumental friction.																188
1	0·3– 1·5																	1,048
2	1·6– 3·3	78	133	162	152	62	30	116	238	117	106	134	129	109	118	50	55	1,789
3	3·4– 5·4	74	77	68	91	59	43	171	363	131	170	173	149	120	122	89	100	2,000
4	5·5– 7·9	77	58	66	37	32	75	190	364	101	255	181	119	119	162	183	121	2,140
5	8·0–10·7	4	22	27	6	7	61	77	164	57	185	117	105	61	49	55	39	1,036
6	10·8–13·8	3	—	1	6	8	74	29	11	16	79	80	81	37	20	15	1	461
7	13·9–17·1	—	—	—	—	1	13	2	—	1	5	29	14	16	—	2	—	83
8	17·2–20·7	—	—	—	—	—	5	—	—	1	1	2	—	—	—	—	—	9
9	20·8–24·4	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	1
10	24·5–28·4	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	1
11	28·5–33·5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	33·6 or above.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ALL FORCES ...		236	290	324	292	169	301	585	1,140	424	802	717	597	462	471	394	316	8,756

No. of hours of missing or defective record 4.

SCILLY.

Force by Beaufort Scale.	Corresponding Mean Velocity. In metres per sec.	Total Number of Hours recorded during the Month from NNE.	NE.	ENE.	E.	ESE.	SE.	SSE.	S.	SSW.	SW.	WSW.	W.	WNW.	NW.	NNW.	N.	All Dir.
0	<0·3	Direction for Forces 0–1 uncertain owing to instrumental friction.																117
1	0·3– 1·5																	364
2	1·6– 3·3	80	57	64	78	61	46	40	43	30	29	25	48	97	134	54	66	952
3	3·4– 5·4	166	189	154	142	113	72	96	143	71	111	82	144	179	173	66	77	1,978
4	5·5– 7·9	91	92	118	166	120	51	128	190	107	166	167	232	227	235	100	57	2,247
5	8·0–10·7	28	39	41	59	79	25	115	118	45	82	113	213	140	154	81	37	1,369
6	10·8–13·8	15	11	6	6	12	53	104	59	51	97	124	230	123	111	32	40	1,074
7	13·9–17·1	—	1	—	—	2	14	30	16	17	15	29	64	90	70	23	7	378
8	17·2–20·7	—	—	—	—	—	4	16	2	1	1	9	16	45	12	5	2	113
9	20·8–24·4	—	—	—	—	—	—	2	—	—	—	1	—	5	1	—	1	10
10	24·5–28·4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	28·5–33·5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	33·6 or above.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ALL FORCES ...		380	389	383	451	387	265	531	571	322	501	550	947	906	890	361	287	8,602

No. of hours of missing or defective record 158.

TABLE VI (*a*).

RECORD OF WIND VELOCITY AT 10 ANEMOGRAPH STATIONS IN 1913.

NUMBER OF HOURS during which the MEAN Hourly Velocity came within the limits assigned for the several numbers of the Beaufort scale, with percentage for each number of the scale.

*** The numbers of the Beaufort Scale are grouped as follows :—
0, calm : 1–3, light winds : 4–5, moderate or fresh winds : 6–7, high or strong winds : 8–12, gales and storms.

Force by Beaufort Scale.	Corresponding Mean Hourly Velocity.			WESTERN AND SOUTHERN COASTS AND IRISH SEA.												EASTERN COASTS AND LONDON.							
				Valencia.		Scilly.		Falmouth.		Fleetwood.		Holyhead.		Kingstown.		Deerness.		Aberdeen.		Yarmouth.		Kew.	
	In Statute Miles per Hour.	In Feet per Second.	In Metres per Second.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.
0	less than 1.	less than 2.	less than 0·3.	188	2	117	1	103	1	17	0	16	0	77	1	59	1	26	0	44	0	185	2
1	1–3	2–5	0·3–1·5	1,048	12	364	4	1,406	16	507	6	459	5	656	7	623	7	1,350	15	502	6	1,663	19
2	4–7	6–11	1·6–3·3	1,789	20	952	11	2,835	32	1,825	21	1,455	17	1,553	18	1,634	19	3,306	38	2,471	28	2,953	34
3	8–12	12–18	3·4–5·4	2,000	23	1,978	23	2,456	28	2,013	23	1,700	20	1,716	20	1,693	19	2,167	25	2,139	24	2,243	25
4	13–18	19–27	5·5–7·9	2,140	25	2,247	26	1,426	16	2,195	25	2,374	27	2,023	23	1,728	20	1,282	15	1,710	20	1,304	15
5	19–24	28–36	8·0–10·7	1,036	12	1,369	16	405	5	1,176	13	1,654	19	1,450	17	1,340	15	453	5	590	7	354	4
6	25–31	37–46	10·8–13·8	461	5	1,074	12	128	2	656	8	862	10	923	10	1,066	12	159	2	260	3	57	1
7	32–38	47–56	13·9–17·1	83	1	378	4	1	0	190	2	193	2	276	3	336	4	14	0	45	1	—	—
8	39–46	57–68	17·2–20·7	9	0	113	1	—	—	90	1	36	0	34	0	160	2	3	0	14	0	1	0
9	47–54	69–80	20 8–24·4	1	0	10	0	—	—	12	0	6	0	3	0	28	0	—	—	8	0	—	—
10	55–63	81–93	24·5–28·4	1	0	—	—	—	—	3	0	—	—	3	0	—	—	—	—	—	—	—	—
11	64–75	94–110	28·5–33·5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	above 75	above 110	above 33·5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Number of Hours lost from various causes				4	0	158	2	—	—	76	1	5	0	46	1	93	1	—	—	977	11	—	—

TABLE VII.—MILES per HOUR into Metres per Second. 1 Mile per Hour = 0·44704 Metres per Second.

Miles per Hour.	0	1	2	3	4	5	6	7	8	9
	Metres per Second.									
0	0·0	0·4	0·9	1·3	1·8	2·2	2·7	3·1	3·6	4·0
10	4·5	4·9	5·4	5·8	6·3	6·7	7·2	7·6	8·0	8·5
20	8·9	9·4	9·8	10·3	10·7	11·2	11·6	12·1	12·5	13·0
30	13·4	13·9	14·3	14·8	15·2	15·6	16·1	16·5	17·0	17·4
40	17·9	18·3	18·8	19·2	19·7	20·1	20·6	21·0	21·5	21·9
50	22·4	22·8	23·2	23·7	24·1	24·6	25·0	25·5	25·9	26·4
60	26·8	27·3	27·7	28·2	28·6	29·1	29·5	30·0	30·4	30·8
70	31·3	31·7	32·2	32·6	33·1	33·5	34·0	34·4	34·9	35·3
80	35·8	36·2	36·7	37·1	37·6	38·0	38·4	38·9	39·3	39·8
90	40·2	40·7	41·1	41·6	42·0	42·5	42·9	43·4	43·8	44·3
100	44·7	45·2	45·6	46·0	46·5	46·9	47·4	47·8	48·3	48·7
110	49·2	49·6	50·1	50·5	51·0	51·4	51·9	52·3	52·8	53·2
120	53·6	54·1	54·5	55·0	55·4	55·9	56·3	56·8	57·2	57·7
130	58·1	58·6	59·0	59·5	59·9	60·4	60·8	61·2	61·7	62·1
140	62·6	63·0	63·5	63·9	64·4	64·8	65·3	65·7	66·2	66·6

M.O. 214a. App. IV.

METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1913.

PART I. (WEEKLY WEATHER REPORT). APPENDIX IV.

MONTHLY NORMALS

OF

TEMPERATURE, RAINFALL, AND SUNSHINE.

A Revised Edition of the Quinquennial Appendix to the Weekly Weather Report, giving Averages of Temperature and Rainfall for the periods of 35 years and 40 years and of Sunshine for the period of 30 years ended 1910, with Maps.

These Tables are in continuation of those issued as Appendices to the Weekly Weather Reports for 1891, 1896, 1901, and 1906. The period of 35 years 1876–1910 has been taken as the fundamental period for all stations, but where observations are available for the 40 years 1871–1910 averages for this period have also been included.

For Reference to additional Averages and Notes *see* page 264.

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TABLE I.—SHOWING the AVERAGES of DAILY MAXIMUM, MINIMUM and MEAN

[The Averages refer to the period of 35 Years 1876–1910. For some places where records have

DISTRICT AND STATION.	Lat N.	Long.	Height of Station (H) above M.S.L.	No. of Years ending 1910.	January.			February.			March.			April.			May.			June.		
					Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
0. SCOTLAND, N.	° ′	° ′	Feet.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.
Sumburgh Head ..	59 51	1 17 W.	112	35	42·5	35·4	39·0	41·8	34·2	38·0	42·6	34·1	38·4	45·9	36·9	41·4	49·9	40·2	45·1	54·0	44·9	49·5
				40	*42·6*	*35·4*	*39·0*	*42·0*	*34·3*	*38·2*	*42·8*	*34·3*	*38·6*	*45·9*	*36·9*	*41·4*	*49·9*	*40·2*	*45·1*	*54·2*	*45·0*	*49·6*
Deerness	58 56	2 45 W.	160	35	42·5	35·3	38·9	42·0	34·6	38·3	43·1	34·9	39·0	46·7	37·6	42·2	51·0	41·5	46·3	55·5	46·1	50·8
				40	*42·5*	*35·4*	*39·0*	*42·1*	*34·8*	*38·5*	*43·4*	*35·2*	*39·3*	*46·8*	*37·8*	*42·3*	*51·0*	*41·5*	*46·3*	*55·9*	*46·3*	*51·1*
Wick	58 27	3 6 W.	81	35	42·4	33·0	37·7	42·8	32·6	37·7	44·8	33·6	39·2	49·1	36·7	42·9	53·8	40·6	47·2	58·5	45·4	52·0
				40	*42·5*	*33·1*	*37·8*	*42·9*	*32·7*	*37·8*	*45·0*	*33·9*	*39·5*	*49·1*	*36·8*	*43·0*	*53·7*	*40·7*	*47·2*	*58·6*	*45·6*	*52·1*
Stornoway	58 11	6 22 W.	51	35	43·5	34·5	39·0	43·8	34·0	38·9	45·0	34·1	39·6	49·1	37·2	43·2	53·3	41·2	47·3	58·4	46·3	52·4
				40	*43·4*	*34·4*	*38·9*	*43·8*	*34·2*	*39·0*	*45·1*	*34·3*	*39·7*	*49·2*	*37·2*	*43·2*	*53·6*	*41·0*	*47·3*	*58·5*	*46·2*	*52·4*
Lairg	58 1	4 22 W.	387	35	40·5	29·6	35·1	42·0	29·1	35·6	44·7	29·8	37·3	50·6	33·3	42·0	56·1	38·3	47·2	62·6	43·7	53·2
				40	*40·7*	*29·6*	*35·2*	*42·1*	*29·3*	*35·7*	*45·1*	*30·2*	*37·7*	*50·7*	*33·4*	*42·1*	*56·0*	*38·3*	*47·2*	*62·4*	*43·6*	*53·0*
Dunrobin Castle ..	57 59	3 56 W.	12	35	43·1	33·1	38·1	43·7	33·3	38·5	45·7	34·1	39·9	49·5	37·6	43·6	54·4	41·8	48·1	59·0	47·1	53·1
				40	*43·2*	*33·1*	*38·2*	*44·0*	*33·4*	*38·7*	*46·0*	*34·3*	*40·2*	*49·7*	*37·6*	*43·7*	*54·5*	*41·7*	*48·1*	*59·2*	*47·1*	*53·2*
Strathpeffer Spa ..	57 37	4 28 W.	200	35	41·5	32·1	36·8	42·3	32·1	37·2	44·5	33·1	38·8	50·4	36·4	43·4	56·0	41·0	48·5	61·9	46·6	54·3
Glencarron	57 30	5 14 W.	500	35	41·2	32·5	36·9	41·7	31·5	36·6	43·7	31·9	37·8	49·5	35·1	42·3	55·2	39·7	47·5	60·6	45·1	52·9
Fort Augustus ..	57 8	4 40 W.	68	35	42·1	33·3	37·7	42·7	31·8	37·3	45·4	32·8	39·1	51·0	35·9	43·5	55·8	40·2	48·0	61·3	46·1	53·7
Kingussie	57 5	4 2 W.	840	35	40·0	29·4	34·7	41·1	29·9	35·5	43·8	30·8	37·3	49·3	33·8	41·6	56·2	38·8	47·5	63·2	45·0	54·1
Fort William	56 49	5 7 W.	171	35	43·4	34·9	39·2	43·7	34·6	39·2	46·1	35·2	40·7	51·4	37·7	44·6	58·9	42·0	49·5	62·9	47·6	55·3
1. SCOTLAND, E.																						
Gordon Castle ..	57 37	3 5 W.	101	35	43·2	32·9	38·1	44·1	32·8	38·5	46·4	33·4	39·9	51·5	36·3	43·9	57·2	40·6	48·9	63·0	46·0	54·5
Nairn	57 36	3 52 W.	82	35	42·6	31·9	37·3	43·6	31·5	37·6	46·1	32·6	39·4	51·4	36·0	43·7	56·6	40·9	48·8	62·2	46·5	54·4
				40	*42·6*	*32·1*	*37·4*	*43·6*	*31·9*	*37·8*	*46·2*	*33·1*	*39·7*	*51·5*	*36·4*	*44·0*	*56·5*	*41·2*	*48 9*	*62·2*	*46·8*	*54·5*
Aberdeen	57 10	2 6 W.	46	35	42·1	33·0	37·6	43·1	33·1	38·1	45·6	34·1	39·9	49·5	37·6	43·6	54·6	41·7	48·2	60·2	47·0	53·6
				40	*42·2*	*33·2*	*37·7*	*43·1*	*33·3*	*38·2*	*45·7*	*34·5*	*40·1*	*49·6*	*37·8*	*43·7*	*54·6*	*41·9*	*48·3*	*60·3*	*47·1*	*53·7*
Tillypronie	57 10	2 56 W.	1,116	35	40·2	29·3	34·8	41·1	29·1	35·1	43·1	29·5	36·3	47·7	32·2	40·0	54·0	36·9	45·5	60·0	42·8	51·4
				40	*40·2*	*29·3*	*34·8*	*41·1*	*29·2*	*35·2*	*43·3*	*29·8*	*36·6*	*48·0*	*32·4*	*40·2*	*53·8*	*36·8*	*45·3*	*60·0*	*42·8*	*51·4*
Braemar	57 0	3 24 W.	1,120	35	39·5	28·7	34·1	40·0	28·6	34·3	42·2	29·5	35·9	47·7	33·0	40·4	54·5	37·6	46·1	61·6	43·8	52·7
				40	*39·6*	*28·9*	*34·3*	*40·2*	*28·9*	*34·6*	*42·6*	*30·0*	*36 3*	*48·0*	*33·2*	*40·6*	*54·5*	*37·7*	*46·1*	*61·4*	*43·8*	*52·6*
Balruddery	56 29	3 8 W.	276	35	41·7	31·8	36·8	43·6	31·8	37·7	46·6	32·6	39·6	51·7	35·5	43·6	58·1	40·2	49·2	63·9	45·7	54·8
Dundee	56 28	2 56 W.	160	35	41·3	32·6	37·0	42·5	32·6	37·6	45·7	33·5	39·6	51·1	36·6	43·9	57·3	41·4	49·4	63·7	47·1	55·4
				40	*41·4*	*32·7*	*37·1*	*42·6*	*32·8*	*37·7*	*45·9*	*33·9*	*39·9*	*51·3*	*36·9*	*44·1*	*57·2*	*41·5*	*49·4*	*63·7*	*47·2*	*55·5*
Ochtertyre	56 23	3 53 W.	296	35	42·1	31·4	36·8	44·0	31·7	37·9	47·2	32·7	40·0	52·8	35·9	44·4	59·4	40·6	50·0	65·6	46·5	56·1
				40	*42·0*	*31·6*	*36·8*	*43·7*	*32·0*	*37·9*	*46 9*	*33·2*	*40·1*	*52·8*	*36·3*	*44·6*	*59·0*	*40·9*	*50·0*	*65·3*	*46·8*	*56·1*
Leith	55 58	3 10 W.	18	35	44·0	33·8	38·9	45·3	33·8	39·6	47·7	34·5	41·1	52·2	37·8	45·0	57·4	42·5	50·0	63·1	48·2	55·7
				40	*44·2*	*33·9*	*39·1*	*45·4*	*33·9*	*39·7*	*48·0*	*34·8*	*41·4*	*52·5*	*38·0*	*45·3*	*57·5*	*42·5*	*50·0*	*63·3*	*48·2*	*55·8*
Blackford Hill (Edinburgh).	55 57	3 12 W.	441	35	42·3	33·4	37·9	43·0	33·5	38·3	45·1	34·0	39·6	49·4	37·2	43·3	54·8	41·4	48·1	60·9	47·0	54·0
Marchmont	55 44	2 25 W.	498	35	41·4	31·0	36·2	42·6	31·5	37·1	45·3	32·2	38·8	50·2	35·5	42·9	55·9	39·9	47·9	62·0	45·6	53·8
				40	*41·6*	*31·1*	*36·4*	*42·7*	*31·5*	*37·1*	*45·6*	*32·5*	*39·1*	*50·5*	*35·6*	*43·1*	*55·8*	*40·0*	*47·9*	*62·1*	*45·6*	*53·9*
2. ENGLAND, N.E.																						
Alnwick Castle ..	55 25	1 43 W.	210	35	42·4	33·2	37·8	43·2	33·5	38·4	45·5	34·4	40·0	49·4	37·3	43·4	54·8	41·8	48·3	61·1	47·7	54·4
				40	*42·4*	*33·4*	*37·9*	*43·0*	*33·6*	*38·3*	*45·6*	*34·8*	*40·2*	*49·3*	*37·4*	*43·4*	*54·6*	*41·9*	*48·3*	*61·0*	*47·7*	*54·4*
Cockle Park (near Morpeth).	55 13	1 41 W.	324	35	40·7	32·0	36·4	41·5	32·1	36·8	44·4	33·0	38·7	48·2	35·9	42·1	53·1	40·4	46·8	59·4	46·1	52·8
Shields	55 0	1 27 W.	96	35	43·3	33·5	38·4	44·3	33·8	39·1	46·7	34·3	40·5	49·9	37·7	43·8	54·5	42·3	48·4	60·5	47·9	54·2
				40	*43·3*	*33·8*	*38·6*	*44·1*	*34·0*	*39·1*	*46·6*	*34·8*	*40·7*	*49·9*	*38·1*	*44·0*	*54·6*	*42·5*	*48·6*	*60·6*	*48·3*	*54·5*
Newcastle-on-Tyne	54 59	1 36 W.	152	35	42·9	34·9	38·9	43·7	35·3	39·5	46·3	35·9	41·1	50·6	39·0	44·8	56·1	43·4	49·8	62·0	49·1	55·6
Seaham	54 50	1 19 W.	139	35	42·9	33·8	38·4	44·4	34·2	39·3	47·0	34·9	41·0	50·6	38·0	44·3	55·4	42·3	48·9	61·1	47·9	54·5
Durham	54 46	1 35 W.	336	35	41·8	31·8	36·9	43·5	32·2	37·9	46·8	33·0	39·9	51·7	36·0	43·9	57·1	40·5	48·8	64·3	46·6	55·5
				40	*41·9*	*32·0*	*37·0*	*43·3*	*32·3*	*37·8*	*46·9*	*33·3*	*40·1*	*51·9*	*36·2*	*44·1*	*57·2*	*40·5*	*48·9*	*64·4*	*46·6*	*55·5*
Whitby	54 29	0 37 W.	124	35	41·9	36·4	39·2	42·6	36·8	39·7	45·0	37·7	41·4	48·6	40·8	44·7	53·3	44·9	49·1	59·5	50·8	55·2
Rounton .. .	54 24	1 18 W.	249	35	41·8	31·6	36·7	43·5	32·0	37·8	46·8	32·7	39·8	51·5	35·7	43·6	56·8	40·3	48·6	63·5	46·2	54·9
Scarborough	54 18	0 24 W.	100	35	42·6	34·3	38·5	43·9	34·8	39·4	46·8	35·7	41·3	50·4	38·9	44·7	55·4	43·3	49·4	61·7	49·2	55·5
				40	*42·7*	*34·4*	*38·6*	*43·8*	*34·8*	*39·3*	*46·8*	*35·9*	*41·4*	*50·4*	*39·1*	*44·8*	*55·5*	*43·4*	*49·5*	*61·8*	*49·3*	*55·6*
York	53 57	1 5 W.	56	35	42·7	32·6	37·7	44·6	33·3	39·0	48·4	34·0	41·2	53·8	37·5	45·7	59·8	42·5	51·2	66·3	48·6	57·5
				40	*42·8*	*32·8*	*37·8*	*44·5*	*33·4*	*39·0*	*48·5*	*34·3*	*41·4*	*54·0*	*37·7*	*45·9*	*59·7*	*42·5*	*51·1*	*66·3*	48·6	*57·5*
Factors for computing Mean Temperature. *See* foot note.					**0·520**			**0·500**			**0·485**			**0·476**			**0·470**			**0·465**		

The third column under the name of each month gives the average of the readings of the maximum and minimum thermometers for that month. A closer approximation to the true a certain fraction of the difference between it and the average maximum reading. This fraction is different

The averages for stations with less than 35 years observations are obtained by comparison with a neighbouring station or stations. Thus Strathpeffer Spa, Glencarron and Fort Augustus Cockle Park with Alnwick Castle; Newcastle with Shields;

TEMPERATURE for EACH MONTH and for the WHOLE YEAR at STATIONS in the BRITISH ISLES.

been maintained for the 40 years 1871–1910 the Averages for that period are added in italics.]

July.			August.			September.			October.			November.			December.			Whole Year.			STATIONS.
Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	
°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	
57·0	48·0	52·5	57·2	48·3	52·8	54·8	46·3	50·6	50·1	42·0	46·1	46·1	38·7	42·4	43·3	36·2	39·8	48·8	40·4	44·6	Sumburgh Head.
57·2	*48·1*	*52·7*	*57·4*	*48·3*	*52·9*	*54·8*	*46·2*	*50·5*	*50·0*	*41·9*	*46·0*	*46·0*	*38·4*	*42·2*	*43·2*	*36·1*	*39·7*	*48·8*	*40·4*	*44·6*	
58·0	49·0	53·5	57·9	49·4	53·7	55·5	47·4	51·5	50·5	42·8	46·7	46·3	39·3	42·8	43·3	36·2	39·8	49·4	41·2	45·3	Deerness (Orkney)
58·5	*49·3*	*53·9*	*58·1*	*49·5*	*53·8*	*55·6*	*47·4*	*51·5*	*50·5*	*42·8*	*46·7*	*46·1*	*38·9*	*42·5*	*43·3*	*36·1*	*39·7*	*49·5*	*41·3*	*45·4*	
61·1	48·4	54·8	61·1	48·2	54·7	58·2	45·8	52·0	52·2	40·6	46·4	46·9	36·8	41·9	43·3	33·8	38·6	51·2	39·6	45·4	Wick.
61·4	*48·7*	*55·1*	*61·1*	*48·3*	*54·7*	*58·0*	*45·7*	*51·9*	*52·2*	*40·6*	*46·4*	*46·7*	*36·7*	*41·7*	*43·2*	*33·7*	*38·5*	*51·2*	*39·7*	*45·5*	
60·1	48·9	54·5	60·0	49·0	54·5	57·5	46·2	51·9	51·9	40·9	46·4	47·3	37·8	42·6	44·1	35·0	39·6	51·1	40·4	45·8	Stornoway.
60·3	*49·0*	*54·7*	*60·1*	*49·0*	*54·6*	*57·3*	*46·0*	*51·7*	*51·7*	*40·7*	*46·2*	*47·0*	*37·6*	*42·3*	*43·9*	*34·9*	*39·4*	*51·2*	*40·4*	*45·8*	
63·5	46·7	55·1	63·1	46·7	54·9	60·3	42·9	51·6	52·5	37·4	45·0	45·7	33·2	39·5	40·6	29·1	34·9	51·9	36·6	44·3	Lairg.
63·7	*46·8*	*55·3*	*63·1*	*46·7*	*54·9*	*60·0*	*42·8*	*51·4*	*52·3*	*37·4*	*44·9*	*45·4*	*33·0*	*39·2*	*40·7*	*29·2*	*35·0*	*51·9*	*36·7*	*44·3*	
61·4	49·9	55·7	61·3	49·8	55·6	58·6	46·6	52·6	55·5	41·3	48·4	47·4	37·1	42·3	43·5	33·7	38·6	51·9	40·5	46·2	Dunrobin Castle.
61·7	*49·9*	*55·8*	*61·6*	*49·7*	*55·7*	*58·6*	*46·5*	*52·6*	*55·2*	*41·2*	*48·2*	*47·3*	*37·0*	*42·2*	*43·7*	*33·6*	*38·7*	*52·1*	*40·8*	*46·5*	
63·5	49·6	56·6	62·8	48·7	55·8	59·0	45·2	52·1	51·9	39·4	45·7	46·3	35·5	40·9	41·8	31·2	36·5	51·8	39·2	45·5	Strathpeffer Spa (1885).
61·2	47·8	54·5	60·5	47·6	54·1	57·6	44·5	51·1	50·9	39·2	45·1	45·7	35·4	40·6	41·7	31·5	36·6	50·8	38·5	44·7	Glencarron (1885).
63·3	49·4	56·4	62·8	48·8	55·8	59·3	44·8	52·1	52·4	39·6	46·0	46·7	35·9	41·3	42·4	31·8	37·1	52·1	39·2	45·7	Fort Augustus (1884).
63·9	47·4	55·7	62·4	47·2	54·8	58·4	43·0	50·7	50·5	37·5	44·0	44·2	33·4	38·8	40·1	29·6	34·9	51·1	37·2	44·2	Kingussie (1883-1885; 1895.)
63·6	50·4	57·0	62·7	50·6	56·7	59·5	47·4	53·5	52·7	42·0	47·4	47·1	37·9	42·5	44·0	34·9	39·5	52·8	41·2	47·0	Fort William (1884).
64·8	48·7	56·8	64·2	48·6	56·4	61·3	45·3	53·3	56·6	39·5	48·1	47·7	36·9	42·3	43·3	33·5	38·4	53·6	39·5	46·6	Gordon Castle (1881).
64·2	49·4	56·8	63·7	49·1	56·4	60·3	45·3	52·8	52·9	39·5	46·2	46·8	35·5	41·2	42·7	32·1	37·4	52·8	39·2	46·0	Nairn.
64·4	*49·8*	*57·1*	*63·7*	*49·4*	*56·6*	*60·1*	*45·6*	*52·9*	*52·7*	*39·7*	*46·2*	*46·4*	*35·5*	*41·0*	*42·6*	*32·4*	*37·5*	*52·7*	*39·5*	*46·1*	
63·1	50·3	56·7	62·7	49·9	56·3	59·4	46·6	53·0	52·8	41·5	47·2	46·8	37·2	42·0	42·6	33·7	38·2	51·9	40·5	46·2	Aberdeen.
63·3	*50·6*	*57·0*	*62·8*	*50·0*	*56·4*	*59·2*	*46·7*	*53·0*	*52·7*	*41·5*	*47·1*	*46·6*	*37·1*	*41·9*	*42·6*	*33·8*	*38·2*	*51·9*	*40·6*	*46·3*	
61·7	46·0	53·9	61·0	45·5	53·3	57·6	42·1	49·9	50·3	37·5	43·9	44·0	33·5	38·8	40·1	30·1	35·1	50·1	36·2	43·2	Tillypronie.
61·8	*46·1*	*54·0*	*61·1*	*45·6*	*53·4*	*57·5*	*42·1*	*49·8*	*50·2*	*37·4*	*43·8*	*43·8*	*33·3*	*38·6*	*40·2*	*30·0*	*35·1*	*50·1*	*36·2*	*43·2*	
62·6	46·8	54·7	61·2	46·0	53·6	57·4	42·4	49·9	49·9	37·2	43·6	43·8	32·8	38·3	40·1	29·1	34·6	50·0	36·3	43·2	Braemar.
62·8	*46·9*	*54·9*	*61·3*	*46·1*	*53·7*	*57·3*	*42·4*	*49·9*	*49·8*	*37·2*	*43·5*	*43·6*	*32·7*	*38·2*	*40·2*	*29·1*	*34·7*	*50·1*	*36·4*	*43·3*	
66·3	48·7	57·5	65·0	47·7	56·4	61·5	44·4	53·0	53·9	39·4	46·7	47·4	35·5	41·5	41·7	32·5	37·1	53·5	38·8	46·2	Balruddery (1901).
66·5	50·4	58·5	65·0	49·7	57·4	60·9	46·4	53·7	52·7	40·8	46·8	46·0	36·4	41·2	41·7	33·0	37·4	52·9	40·0	46·5	Dundee.
66·6	*50·7*	*58·7*	*65·0*	*50·0*	*57·5*	*60·8*	*46·5*	*53·7*	*52·7*	*40·9*	*46·8*	*45·9*	*36·4*	*41·2*	*41·8*	*33·0*	*37·4*	*52·9*	*40·2*	*46·6*	
67·3	49·5	58·4	66·0	48·9	57·5	61·9	45·3	53·6	54·0	39·6	46·8	47·1	35·3	41·2	42·5	31·9	37·2	54·2	39·1	46·7	Ochtertyre.
67·1	*50·0*	*58·6*	*65·7*	*49·2*	*57·5*	*61·3*	*45·5*	*53·4*	*53·5*	*39·8*	*46·7*	*46·7*	*36·4*	*41·1*	*42·4*	*32·0*	*37·2*	*53·9*	*39·4*	*46·7*	
66·0	51·3	58·7	65·6	51·1	58·4	62·1	47·6	54·9	54·9	42·0	48·5	48·5	37·7	43·1	44·5	34·4	39·5	54·3	41·2	47·8	Leith.
66·3	*51·5*	*58·9*	*65·7*	*51·4*	*58·6*	*62·1*	*47·7*	*54·9*	*54·9*	*42·0*	*48·5*	*48·4*	*37·6*	*43·0*	*44·6*	*34·5*	*39·6*	*54·4*	*41·3*	*47·9*	
63·5	50·1	56·8	63·1	50·1	56·6	59·1	47·4	53·3	52·5	41·8	47·2	46·6	37·4	42·0	42·9	33·9	38·4	51·9	40·6	46·3	Blackford Hill (1896).
64·5	48·9	56·7	63·9	48·4	56·2	60·0	45·0	52·5	52·3	39·9	46·1	46·0	35·3	40·7	41·6	31·6	36·6	52·1	38·7	45·4	Marchmont.
64·8	*49·0*	*56·9*	*64·0*	*48·5*	*56·3*	*60·0*	*45·0*	*52·5*	*52·3*	*39·8*	*46·1*	*45·9*	*35·2*	*40·6*	*41·7*	*31·6*	*36·7*	*52·3*	*38·8*	*45·6*	
64·4	51·1	57·8	63·7	50·6	57·2	59·8	47·1	53·5	53·0	41·9	47·5	47·3	37·4	42·4	42·9	33·9	38·4	52·3	40·8	46·6	Alnwick Castle.
64·5	*51·2*	*57·9*	*63·7*	*50·8*	*57·3*	*59·7*	*47·2*	*53·5*	*52·9*	*42·0*	*47·5*	*47·0*	*37·4*	*42·2*	*42·8*	*34·0*	*38·4*	*52·2*	*41·0*	*46·6*	
62·7	49·7	56·2	62·3	49·1	55·7	58·6	45·8	52·2	51·8	40·6	46·2	46·0	36·8	41·4	41·4	32·8	37·1	50·8	39·5	45·2	Cockle Park (near Morpeth) (1898).
64·2	51·5	57·9	64·1	51·2	57·7	60·7	47·9	54·3	54·0	42·4	48·2	48·2	37·9	43·1	43·8	34·3	39·1	52·9	41·3	47·1	Shields.
64·3	*51·8*	*58·1*	*64·1*	*51·5*	*57·8*	*60·5*	*48·1*	*54·3*	*53·9*	*42·5*	*48·2*	*48·0*	*38·0*	*43·0*	*43·8*	*34·4*	*39·1*	*52·8*	*41·5*	*47·2*	
65·8	52·9	59·4	64·8	53·0	58·9	60·7	49·6	55·2	53·7	43 8	48·8	47·5	39·6	43·6	43·4	35·7	39·6	53·1	42·7	47·9	Newcastle-on-Tyne, (1901).
65·1	51·5	58·3	64·6	51·1	57·9	60·9	48·2	54·6	53·9	42·9	48·4	48·0	38·4	43·2	43·4	34·5	39·0	53·1	41·5	47·3	Seaham.
67·6	50·3	59·0	66·2	49·9	58·1	61·7	46·4	54·1	53·8	40·9	47·4	47·1	36·4	41·8	42·4	32·8	37·6	53·7	39·7	46·7	Durham.
67·9	*50·4*	*59·2*	*66·5*	*50·0*	*58·3*	*61·7*	*46·4*	*54·1*	*53·8*	*40·9*	*47·4*	*46·9*	*36·3*	*41·6*	*42·3*	*32·8*	*37·6*	*53·7*	*39·8*	*46·8*	
63·7	54·6	59·2	63·2	54·3	58·8	59·8	51·3	55·6	53·5	46·1	49·8	47·0	41·0	44·0	42·7	37·2	40·0	51·7	44·3	48·0	Whitby (1888).
66·5	49·7	58·1	65·5	49·4	57·5	61·3	45·8	53·6	53·8	40·4	47·1	47·2	36·0	41·6	42·5	32·7	37·6	53·4	39·4	46·4	Rounton (1883).
65·8	52·7	59·3	65·1	52·4	58·8	61·4	49·6	55·5	54·4	44·1	49·3	48·3	39·4	43·9	43·6	35·0	39·3	53·3	42·5	47·9	Scarborough.
65·8	*52·7*	*59·3*	*65·1*	*52·5*	*58·8*	*61·2*	*49·6*	*55·4*	*54·2*	*44·1*	*49·2*	*48·1*	*39·3*	*43·7*	*43·5*	*35·1*	*39·3*	*53·2*	*42·5*	*47·9*	
68·8	52·0	60·4	67·8	51·4	59·6	63·5	47·3	55·4	55·3	41·6	48·5	48·2	37·2	42·7	43·3	33·3	38·3	55·2	40·9	48·1	York.
68·9	*52·1*	*60·5*	*67·9*	*51·5*	*59·7*	*63·4*	*47·5*	*55·5*	*55·1*	*41·7*	*48·4*	*48·0*	*37·1*	*42·6*	*43·2*	*33·4*	*38·3*	*55·2*	*41·1*	*48·2*	
0·465			**0·470**			**0·476**			**0·485**			**0·500**			**0·520**			—			

mean temperature may be obtained,—according to the practice followed in the compilation of the tables of the Weekly Weather Report,—by adding to the average minimum reading for different months, and is represented by the factors entered at the foot of the columns of the several months. [Strachey: Quarterly Weather Report, Appendix II, 1878.] have been compared with Lairg; Kingussie with Braemar; Fort William with Laudale; Gordon Castle with Dunrobin Castle; Balruddery with Dundee; Blackford Hill with Leith Whitby with Scarborough; Rounton with Durham.

(1092—12.) Wt. 196—786 625. 2/15. D & S. G 3.

TABLE I. (*continued*).—SHOWING the AVERAGES of DAILY MAXIMUM, MINIMUM and MEAN

[The Averages refer to the period of 35 Years 1876–1910. For some places where records have

DISTRICT AND STATION.	Lat. N.	Long.	Height of Station (H) above M.S.L.	No. of Years ending 1910.	January.			February.			March.			April.			May.			June.		
					Max.	Min.	Mean.	Max.	Min.	Mean.	Max	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max	Min.	Mean.
2. ENGLAND, N.E. —*cont.*	° ′	° ′	Feet.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.
Hull	53 45	0 16 W.	12	35	42·5	32·4	37·5	44·5	32·9	38·7	47·9	33·7	40·8	52·9	36·9	44·9	58·8	41·7	50·3	65·5	47·7	56·6
				40	*42·6*	*32·6*	*37·6*	*44·4*	*33·1*	*38·8*	*48·2*	*33·8*	*41·0*	*53·2*	*37·1*	*45·2*	*59·0*	*41·7*	*50·4*	*65·8*	*47·8*	*56·8*
Spurn Head	53 34	0 7 E.	26	35	41·9	34·6	38·3	42·8	35·4	39·1	45·3	36·2	40·8	49·2	40·0	44·6	54·6	45·0	49·8	60·5	50·7	55·6
Tealby	53 24	0 16 W.	251	35	41·1	32·1	36·6	43·4	32·9	38·2	46·9	35·0	41·0	52·1	37·8	45·0	57·4	42·6	50·0	63·8	48·6	56·2
Lincoln	53 14	0 33 W.	58	35	41·7	31·8	36·8	44·1	33·2	38·7	48·5	34·2	41·4	54·6	37·9	46·3	61·4	42·7	52·1	67·9	48·9	58·4
Fulbeck	53 3	0 37 W.	180	35	41·6	32·1	36·9	44·1	33·1	38·6	48·4	34·3	41·4	54·5	37·8	46·2	61·0	42·2	51·6	67·8	48·4	58·1
3. ENGLAND, E.																						
Hillington	52 48	0 33 E.	88	35	41·7	31·5	36·6	44·3	32·5	38·4	48·7	33·5	41·1	54·3	37·2	45·8	60·3	42·1	51·2	66·9	48·1	57·5
				40	*42·0*	*31·8*	*36·9*	*44·2*	*32·6*	*38·4*	*49·1*	*33·7*	*41·4*	*54·6*	*37·3*	*46·0*	*60·5*	*42·0*	*51·3*	*67·1*	*48·0*	*57·6*
Yarmouth	52 37	1 43 E.	17	35	41·5	33·4	37·5	42·6	33·9	38·3	45·3	35·2	40·3	49·4	39·7	44·6	55·3	44·9	50·1	61·8	51·1	56·5
Lowestoft	52 29	1 45 E.	83	35	42·4	33·6	38·0	43·7	34·1	38·9	46·7	35·1	40·9	50·6	39·0	44·8	56·0	44·1	50·1	62·2	50·1	56·2
Geldeston	52 28	1 31 E.	37	35	42·8	32·4	37·6	44·6	33·3	39·0	48·5	34·0	41·3	53·4	37·6	45·5	59·5	42·7	51·1	65·5	48·7	57·1
Cambridge	52 12	0 8 E.	41	35	43·2	31·4	37·3	45·9	32·2	39·1	50·4	32·9	41·7	56·5	36·8	46·7	62·4	42·2	52·3	68·6	48·5	58·6
				40	*43·3*	*31·7*	*37·5*	*45·7*	*32·3*	*39·0*	*50·5*	*33·2*	*41·9*	*56·5*	*37·1*	*46·8*	*62·3*	*42·3*	*52·3*	*68·5*	*48·6*	*58·6*
Woburn	52 1	0 36 W.	291	35	41·8	32·4	37·1	44·1	32·9	38·5	48·3	33·6	41·0	54·4	36·9	45·7	60·3	41·4	50·9	66·6	47·5	57·1
Felixstowe	51 58	1 22 E.	10	35	42·3	33·7	38·0	43·7	34·4	39·1	46·9	35·3	41·1	51·5	39·5	45·5	58·2	44·6	51·4	64·7	50·9	57·8
Bennington	51 54	0 5 W.	406	35	41·9	32·4	37·2	43·9	33·3	38·6	48·0	34·0	41·0	54·2	37·5	45·9	60·2	42·3	51·3	66·7	48·4	57·6
Rothamsted	51 48	0 22 W.	424	35	42·1	31·7	36·9	44·2	32·8	38·5	48·2	33·6	40·9	54·1	37·1	45·6	60·2	42·2	51·2	66·4	48·3	57·4
Clacton-on-Sea	51 47	1 9 E.	54	35	41·5	33·6	37·6	43·1	34·1	38·6	45·9	35·4	40·7	50·7	40·1	45·4	56·7	45·1	50·9	63·5	50·7	57·1
Berkhamsted	51 46	0 34 W.	400	35	42·5	32·2	37·4	44·5	33·1	38·8	48·6	33·7	41·2	54·8	37·1	46·0	60·9	41·8	51·4	67·1	48·0	57·6
Shoeburyness	51 32	0 47 E.	13	35	42·7	33·4	38·1	44·7	34·4	39·6	48·4	35·4	41·9	54·1	39·5	46·8	60·6	44·7	52·7	67·1	51·5	59·3
4. MIDLAND COS.																						
Harrogate	54 0	1 33 W.	479	35	41·2	21·9	36·6	42·5	32·6	37·6	46·0	33·4	39·7	51·3	36·5	43·9	57·0	41·0	49·0	63·6	47·2	55·4
Wakefield	53 41	1 30 W.	96	35	43·1	33·3	38·2	44·6	33·9	39·3	47·7	34·6	41·2	53·0	37·3	45·2	59·2	42·4	50·8	65·6	48·3	57·0
Bawtry	53 27	1 4 W.	65	35	42·4	32·0	37·2	45·0	32·8	38·9	48·9	33·7	41·3	55·0	36·7	45·9	61·2	41·3	51·3	67·6	47·8	57·7
Sheffield	53 23	1 29 W.	429	35	42·6	33·8	38·2	44·1	34·5	39·3	47·5	35·0	41·3	52·8	38·6	45·7	59·0	42·8	50·9	65·8	49·0	57·4
Worksop (Hodsock)	53 22	1 5 W.	56	35	42·9	31·6	37·3	45·4	32·5	39·0	49·3	33·4	41·4	54·9	36·5	45·7	60·8	41·5	51·2	67·1	47·5	57·3
Buxton	53 16	1 55 W.	987	35	40·1	30·1	35·1	41·4	30·6	36·0	44·8	31·3	38·1	50·5	34·6	42·6	56·7	39·4	48·1	63·1	45·5	54·3
Strelley	52 58	1 15 W.	377	35	—	—	36·6	—	—	38·2	—	—	40·6	—	—	45·3	—	—	51·0	—	—	57·3
Cheadle	52 58	1 57 W.	646	35	40·8	31·8	36·3	42·7	32·6	37·7	46·3	33·5	39·9	52·0	36·9	44·5	57·7	41·9	49·8	63·8	47·8	55·8
Nottingham	52 56	1 9 W.	82	35	42·4	32·3	37·4	44·6	33·3	39·0	48·3	34·1	41·2	54·1	37·9	46·0	60·2	42·8	51·5	67·1	48·7	57·9
				40	*42·5*	*32·5*	*37·5*	*44·5*	*33·2*	*38·9*	*48·7*	*34·3*	*41·5*	*54·5*	*38·0*	*46·3*	*60·5*	*42·7*	*51·6*	*67·4*	*48·7*	*58·1*
Belvoir Castle	52 54	0 47 W.	259	35	42·0	32·5	37·3	44·1	33·2	38·7	48·0	33·8	40·9	54·0	37·2	45·6	60·1	42·0	51·1	66·7	48·2	57·5
Birmingham	52 28	1 56 W.	535	35	41·8	33·2	37·5	43·7	33·0	38·4	47·1	34·8	41·0	53·2	38·3	45·8	59·6	43·1	51·4	66·1	49·2	57·7
Coventry	52 25	1 30 W.	270	35	43·2	32·1	37·7	45·4	33·1	39·3	49·3	34·1	41·7	55·5	37·8	46·7	62·1	42·6	52·4	68·5	48·5	58·5
Rugby	52 22	1 15 W.	379	35	41·7	31·2	36·5	44·4	32·4	38·4	49·0	33·3	41·2	54·5	36·9	45·7	60·3	41·6	51·0	66·6	48·0	57·3
Hereford	52 5	2 45 W.	291	35	43·4	32·5	38·0	45·6	33·6	39·6	49·4	34·4	41·9	55·2	37·9	46·6	61·4	42·6	52·0	67·5	48·4	58·0
Cheltenham	51 54	2 3 W.	213	35	42·9	32·7	37·8	45·0	33·7	39·4	48·7	34·4	41·6	54·6	37·8	46·2	61·0	42·7	51·9	67·2	48·9	58·1
Oxford	51 46	1 16 W.	208	35	42·9	33·0	38·0	45·2	34·0	39·6	49·1	34·5	41·8	54·9	38·6	46·8	60·9	43·7	52·3	66·9	50·0	58·5
				40	*43·2*	*33·4*	*38·3*	*45·1*	*34·1*	*39·6*	*49·3*	*34·8*	*42·1*	*55·1*	*38·8*	*47·0*	*61·0*	*43·6*	*52·3*	*67·0*	*49·9*	*58·5*
Cirencester	51 43	1 57 W.	446	35	42·4	31·4	36·9	44·3	32·4	38·4	48·0	32·7	40·4	54·0	36·7	45·4	60·0	41·7	50·9	66·0	47·8	56·9
Bath	51 23	2 21 W.	66	35	44·2	33·6	38·9	46·2	34·3	40·3	49·5	34·5	42·0	54·6	38·7	46·7	61·2	43·8	52·5	66·6	49·9	58·3
LONDON.																						
Barnet	51 39	0 10 W.	211	35	42·6	31·6	37·1	45·6	31·9	38·8	50·2	32·4	41·3	56·6	35·9	46·3	63·4	40·9	52·2	69·9	47·3	58·6
Camden Square	51 33	0 8 W.	110	35	43·2	33·6	38·4	45·5	34·5	40·0	50·0	35·3	42·7	57·0	39·4	48·2	64·2	44·7	54·5	70·8	50·9	60·9
				40	*43·5*	*33·9*	*38·7*	*45·3*	*34·5*	*39·9*	*50·3*	*35·5*	*42·9*	*57·3*	*39·5*	*48·4*	*64·2*	*44·6*	*54·4*	*70·7*	*50·8*	*60·8*
Kew	51 28	0 19 W.	18	35	42·8	34·2	38·5	44·8	35·1	40·0	48·6	35·7	42·2	54·7	39·5	47·1	61·1	44·5	52·8	67·5	50·8	59·2
				40	*43·1*	*34·5*	*38·8*	*44·8*	*35·2*	*40·0*	*48·9*	*36·0*	*42·5*	*54·9*	*39·7*	*47·3*	*61·1*	*44·5*	*52·8*	*67·5*	*50·8*	*59·2*
Norwood	51 26	0 6 W.	220	35	42·8	33·5	38·2	45·1	34·5	39·8	49·3	35·2	42·3	55·5	38·9	47·2	62·2	43·9	53·1	68·4	50·1	59·3
Factors for computing Mean Temperature. *See* foot note					0·520			0·500			0·485			0·476			0·470			0·465		

The third column under the name of each month gives the average of the readings of the maximum and minimum thermometers for that month. A closer approximation to the true a certain fraction of the difference between it and the average maximum reading. This fraction is different

The averages for stations with less than 35 years observations are obtained by comparison with a neighbouring station or stations. Thus Spurn Head has been compared with Shields ; Clacton with Yarmouth ; Berkhamsted with Rothamsted ; Shoeburyness with Kew ; Harrogate, Wakefield and Bawtry with York ; Sheffield, Worksop, Strelley, Belvoir Castle,

TEMPERATURE for EACH MONTH and for the WHOLE YEAR at STATIONS in the BRITISH ISLES.

been maintained for the 40 years 1871–1910 the Averages for that period are added in italics.]

July.			August.			September.			October.			November.			December.			Whole Year.			STATIONS.
Max.	Min.	Mean.	Max.	Min.	Mean.	Max	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	
°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F	°F	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	
68·9	51·5	60·2	68·1	50·9	59·5	63·3	47·2	55·3	55·3	41·7	48·5	48·2	36·9	42·6	43·0	33·1	38·1	54·9	40·6	47·8	Hull.
69·2	*51·6*	*60·4*	*68·3*	*51·0*	*59·7*	*63·3*	*47·3*	*55·3*	*55·3*	*41·7*	*48·5*	*48·0*	*36·9*	*42·5*	*42·9*	*33·2*	*38·1*	*55·0*	*40·7*	*47·9*	
64·9	54·6	59·8	64·9	54·6	59·8	61·2	51·9	56·6	54·4	46·0	50·2	48·0	40·7	44·4	43·2	36·1	39·7	52·6	43·7	48·2	Spurn Head (1880).
67·5	52·1	59·8	66·5	51·7	59·1	62·4	48·5	55·5	54·3	42·7	48·5	47·2	37·2	42·2	42·0	32·9	37·5	53·7	41·2	47·5	Tealby (1892).
70·6	52·2	61·4	69·0	51·8	60·4	64·2	48·1	56·2	55·1	42·3	48·7	47·8	37·0	42·4	42·4	33·0	37·7	55·6	41·1	48·4	Lincoln (1888)
70·8	51·7	61·3	69·1	51·9	60·5	64·8	48·0	56·4	55·3	42·3	48·8	48·1	37·2	42·7	42·7	33·1	37·9	55·7	41·0	48·4	Fulbeck (1901).
70·4	51·3	60·9	69·6	51·0	60·3	64·7	47·3	56·0	56·1	41·7	48·9	48·0	36·7	42·4	42·6	32·7	37·7	55·6	40·4	48·0	Hillington.
70·7	*51·4*	*61·1*	*69·8*	*51·0*	*60·4*	*64·8*	*47·4*	*56·1*	*56·1*	*41·7*	*48·9*	*47·9*	*36·6*	*42·3*	*42·6*	*32·7*	*37·7*	*55·8*	*40·5*	*48·2*	
66·0	54·6	60·3	66·2	54·4	60·3	62·2	51·4	56·8	54·9	45·2	50·1	48·1	39·4	43·8	42·9	34·6	38·8	53·0	43·2	48·1	Yarmouth.
66·8	53·3	60·1	67·1	53·4	60·3	63·3	50·6	57·0	56·2	44·8	50·5	49·2	39·3	44·3	43·9	34·7	39·3	54·0	42·7	48·4	Lowestoft.
69·5	52·0	60·8	69·4	51·5	60·5	64·8	48·4	56·6	56·9	42·7	49·8	49·3	37·9	43·6	43·9	33·7	38·8	55·7	41·2	48·5	Geldeston (1881).
71·8	52·0	61·9	70·9	51·6	61·3	66·2	47·6	56·9	57·1	41·4	49·3	49·5	36·2	42·9	44·1	32·5	38·3	57·2	40·4	48·8	Cambridge.
71·9	*52·2*	*62·1*	*71·1*	*51·7*	*61·4*	*66·1*	*47·8*	*57·0*	*57·1*	*41·5*	*49·3*	*49·2*	*36·1*	*42·7*	*43·9*	*32·5*	*38·2*	*57·2*	*40·6*	*48·9*	
69·8	51·0	60·4	69·1	50·9	60·0	64·4	46·3	55·4	55·6	41·2	48·4	48·0	36·4	42·2	43·2	33·6	38·4	55·5	40·3	47·9	Woburn (1899).
68·6	54·4	61·5	68·5	54·9	61·7	64·3	51·3	57·8	56·4	45·7	51·1	49·3	39·8	44·6	44·0	35·2	39·6	54·9	43·3	49·1	Felixstowe (1899).
70·4	51·9	61·2	69·3	51·8	60·6	64·5	48·2	56·4	55·5	42·3	48·9	47·8	37·2	42·5	42·9	33·8	38·4	55·4	41·1	48·3	Bennington (1885).
69·7	51·7	60·7	68·6	51·3	60·0	63·8	47·4	55·6	55·3	41·7	48·5	48·3	36·5	42·4	43·4	33·3	38·4	55·4	40·6	48·0	Rothamsted.
67·7	54·6	61·2	67·6	55·0	61·3	63·2	51·4	57·3	55·6	45·7	50·7	48·2	39·3	43·8	42·9	34·8	38·9	53·9	43·3	48·6	Clacton (1901).
70·6	51·4	61·0	69·6	51·2	60·4	65·1	47·1	56·1	56·0	41·5	48·8	48·5	36·6	42·6	43·3	33·7	38·5	56·0	40·6	48·3	Berkhamsted (1886).
70·9	54·8	62·9	70·3	54·8	62·6	65·7	51·2	58·5	57·3	45·4	51·4	49·4	39·6	44·5	44·2	35·2	39·7	56·3	43·3	49·8	Shoeburyness (1888).
66·2	50·6	58·4	65·2	50·4	57·8	60·7	47·0	53·9	53·1	41·3	47·2	46·6	36·9	41·8	41·9	32·8	37·4	53·0	40·2	46·6	Harrogate (1886).
68·0	51·7	59·9	67·0	51·1	59·1	62·8	47·2	55·0	54·9	41·7	48·3	48·4	37·5	43·0	44·0	34·0	39·0	54·9	41·1	48·0	Wakefield (1878).
70·1	50·8	60·5	69·2	50·4	59·8	64·2	46·1	55·2	55·5	40·5	48·0	48·2	36·3	42·3	43·1	32·5	37·8	55·9	40·1	48·0	Bawtry (1880).
68·3	52·5	60·4	67·1	52·1	59·6	62·6	48·9	55·8	54·5	43·3	48·9	48·1	38·7	43·4	43·4	34·7	39·1	54·7	42·0	48·4	Sheffield (1886).
69·9	51·0	60·5	69·0	50·4	59·7	64·4	46·3	55·4	55·9	41·1	48·5	48·7	36·3	42·5	43·4	32·4	37·9	56·0	40·0	48·0	Worksop (1880).
65·4	49·1	57·3	64·3	48·6	56·5	60·1	44·7	52·4	51·9	39·3	45·6	45·5	34·9	40·2	41·1	31·1	36·1	52·1	38·3	45·2	Buxton.
—	—	60·3	—	—	59·3	—	—	54·9	—	—	47·7	—	—	41·8	—	—	36·9	—	—	47·5	Strelley (1881).
66·1	51·1	58·6	65·2	50·4	57·8	61·1	47·2	54·2	52·9	41·4	47·2	46·4	36·7	41·6	41·7	32·8	37·3	53·1	40·3	46·7	Cheadle.
70·1	52·1	61·1	68·7	51·4	60·1	64·0	47·5	55·8	55·3	41·9	48·6	48·2	36·9	42·6	43·6	33·2	38·4	55·6	41·0	48·3	Nottingham.
70·4	*52·1*	*61·3*	*69·0*	*51·5*	*60·3*	*64·1*	*47·5*	*55·8*	*55·5*	*41·8*	*48·7*	*48·0*	*36·8*	*42·4*	*43·5*	*33·1*	*38·3*	*55·7*	*41·0*	*48·4*	
69·9	51·8	60·9	68·4	51·3	59·9	63·7	47·5	55·6	55·0	41·9	48·5	48·0	37·2	42·6	43·0	33·1	38·1	55·2	40·8	48·0	Belvoir Castle (1896).
68·7	52·5	60·6	67·3	52·0	59·7	62·6	48·6	55·6	54·2	43·1	48·7	47·4	38·1	42·8	42·7	34·1	38·4	54·5	41·7	48·1	Birmingham (1887).
71·1	52·0	61·6	70·0	51·3	60·7	64·8	47·6	56·2	56·0	42·1	49·1	49·1	36·9	43·0	44·0	33·2	38·6	56·5	40·9	48·7	Coventry (1894).
69·3	51·7	60·5	68·3	50·9	59·6	64·0	46·8	55·4	55·1	40·9	48·0	48·2	36·0	42·1	43·1	32·4	37·8	55·4	40·2	47·8	Rugby (1881).
70·3	51·6	61·0	69·1	51·0	60·1	64·2	47·0	55·6	55·6	41·6	48·6	48·8	37·2	43·0	44·3	33·7	39·0	56·2	41·0	48·6	Hereford.
70·1	52·4	61·3	69·0	51·4	60·2	64·0	47·4	55·7	55·5	41·8	48·7	48·7	37·5	43·1	44·3	34·1	39·2	55·9	41·2	48·6	Cheltenham (1879)
70·0	53·5	61·8	68·9	52·7	60·8	64·4	48·5	56·5	56·0	42·6	49·3	48·9	37·7	43·3	44·0	34·3	39·2	56·0	41·9	49·0	Oxford.
70·1	*53·5*	*61·8*	*69·3*	*52·8*	*61·1*	*64·5*	*48·6*	*56·6*	*56·0*	*42·5*	*49·3*	*48·7*	*37·6*	*43·2*	*43·9*	*34·3*	*39·1*	*56·1*	*42·0*	*49·1*	
69·2	51·1	60·2	68·0	49·9	59·0	63·3	46·8	55·1	54·9	41·1	48·0	47·9	36·2	42·1	43·6	32·3	38·0	55·1	40·0	47·6	Cirencester (1878).
69·4	53·4	61·4	68·9	52·5	60·7	64·7	48·3	56·5	57·1	42·8	50·0	50·2	37·5	43·9	45·9	34·4	40·2	56·5	42·0	49·3	Bath (1899)
73·4	50·9	62·2	72·2	50·1	61·2	67·0	46·0	56·5	57·5	40·6	49·1	49·3	35·7	42·5	43·6	32·7	38·2	57·6	39·7	48·7	Barnet (1881).
73·9	54·3	64·1	72·5	53·8	63·2	67·0	49·8	58·4	57·4	43·8	50·6	49·4	38·7	44·1	44·4	35·1	39·8	57·9	42·8	50·4	Camden Square.
74·0	*54·3*	*64·2*	*72·7*	*53·8*	*63·3*	*67·1*	*49·8*	*58·5*	*57·4*	*43·7*	*50·6*	*49·2*	*38·5*	*43·9*	*44·2*	*35·0*	*39·6*	*58·0*	*42·8*	*50·4*	
70·8	54·3	62·6	69·6	53·6	61·6	64·7	49·3	57·0	56·0	43·4	49·7	48·8	38·5	43·7	44·0	35·2	39·6	56·1	42·8	49·5	Kew.
71·0	*54·3*	*62·7*	*69·8*	*53·7*	*61·8*	*64·7*	*49·4*	*57·1*	*56·0*	*43·3*	*49·7*	*48·7*	*38·4*	*43·6*	*43·9*	*35·2*	*39·6*	*56·2*	*42·9*	*49·6*	
71·7	53·4	62·6	70·7	52·9	61·8	65·6	49·1	57·4	56·6	43·2	49·9	49·1	38·4	43·8	44·1	34·8	39·5	56·8	42·3	49·6	Norwood (1878).
0·465			**0·470**			**0·476**			**0·485**			**0·500**			**0·520**			—			

mean temperature may be obtained,—according to the practice followed in the compilation of the tables of the Weekly Weather Report,—by adding to the average minimum reading for different months, and is represented by the factors entered at the foot of the columns of the several months. [Strachey: Quarterly Weather Report, Appendix II, 1878.] Tealby with Hull; Lincoln and Fulbeck with Nottingham; Geldeston with Hillington; Woburn with Rothamsted; Felixstowe with Lowestoft; Bennington with Rothamsted; Birmingham, and Coventry with Nottingham; Rugby, Chelterham, and Bath with Oxford; Cirencester with Marlborough; Barnet with Camden Square; Norwood with Kew.

TABLE I. (*continued*).—SHOWING the AVERAGES of DAILY MAXIMUM, MINIMUM and MEAN

[The Averages refer to the period of 35 Years 1876–1910. For some places where records have

DISTRICT AND STATION.	Lat. N.	Long.	Height of Station (H) above M.S.L.	No. of Years ending 1910.	January.			February.			March.			April.			May.			June.		
					Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
5. ENGLAND, S.E.	° ′	° ′	Feet.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F
Marlborough	51 25	1 44 W.	424	35	42·6	31·7	37·2	44·6	32·7	38·7	48·3	33·1	40·7	54·3	36·6	45·5	60·7	41·2	51·0	66·7	47·1	56·9
Margate	51 24	1 24 E	53	35	43·1	34·6	38·9	44·4	35·4	39·9	47·5	36·7	42·1	52·7	40·6	46·7	58·7	45·6	52·2	64·4	51·5	58·0
Tunbridge Wells ..	51 8	0 16 E.	421	35	41·8	32·2	37·0	43·9	33·3	38·6	47·8	34·5	41·2	53·8	38·3	46·1	60·3	43·1	51·7	66·5	49·1	57·8
Swarraton	51 8	1 11 W.	310	35	42·3	32·0	37·2	44·3	33·0	38·7	48·2	33·6	40·9	54·1	37·1	45·6	60·3	41·7	51·0	65·9	47·9	56·9
Salisbury (Wilton) ..	51 4	1 51 W.	180	35	44·1	30·6	37·4	46·7	31·5	39·1	51·0	32·1	41·6	57·6	35·9	46·8	61·6	40·7	52·7	70·6	46·9	58·8
				40	*44·4*	*30·9*	*37·7*	*46·7*	*31·7*	*39·2*	*51·3*	*32·4*	*41·9*	*57·9*	*35·9*	*46·9*	*64·8*	*40·6*	*52·7*	*70·6*	*46·8*	*58·7*
Dungeness	50 55	0 58 E.	21	35	43·5	34·6	39·1	44·2	35·2	39·7	46·7	36·3	41·5	51·5	40·7	46·1	57·3	46·0	51·7	62·8	52·0	57·4
Southampton	50 55	1 24 W.	65	35	44·5	34·9	39·7	46·7	35·8	41·3	50·5	36·3	43·4	56·3	40·3	48·3	62·6	45·2	53·9	68·3	51·3	59·8
				40	*44·7*	*35·2*	*40·0*	*46·5*	*35·8*	*41·2*	*50·5*	*36·6*	*43·6*	*56·3*	*40·4*	*48·4*	*62·4*	*45·1*	*53·8*	*68·0*	*51·1*	*59·6*
St. Leonards	50 51	0 33 E.	178	35	43·3	35·2	39·3	44·3	35·8	40·1	47·3	36·9	42·1	52·6	40·8	46·7	58·6	45·6	52·1	64·2	51·5	57·9
Brighton	50 49	0 8 W.	31	35	43·7	35·4	39·6	45·0	36·1	40·6	47·9	36·9	42·4	53·8	41·1	47·5	60·3	46·0	53·2	66·1	51·9	59·0
Worthing	50 49	0 22 W.	35	35	43·5	34·4	39·0	44·9	35·4	40·2	47·8	36·3	42·1	53·4	40·3	46·9	59·6	45·2	52·4	65·1	51·1	58·1
Portsmouth	50 48	1 6 W.	11	35	44·4	34·9	39·7	45·7	36·0	40·9	49·1	36·8	43·0	54·4	40·5	47·5	61·0	45·6	53·3	66·6	51·7	59·2
Bognor	50 47	0 40 W.	20	35	43·7	35·3	39·5	44·7	36·2	40·5	47·7	36·9	42·3	52·4	40·8	46·6	58·3	45·2	51·8	64·0	51·2	57·6
Eastbourne	50 46	0 17 E	39	35	44·3	35·8	40·1	45·5	36·5	41·0	48·0	37·1	42·6	53·2	41·0	47·1	59·0	45·8	52·4	64·6	51·6	58·1
				40	*44·5*	*36·0*	*40·3*	*45·5*	*36·4*	*41·0*	*48·5*	*37·2*	*42·9*	*53·8*	*41·0*	*47·4*	*59·5*	*45·6*	*52·6*	*64·9*	*51·4*	*58·2*
Totland Bay	50 41	1 33 W.	140	35	43·8	35·9	39·9	44·7	36·4	40·6	47·6	37·0	42·3	52·7	40·7	46·7	58·8	45·1	52·0	64·0	51·2	57·6
Ventnor	50 36	1 13 W.	59	35	45·5	37·4	41·5	46·5	37·8	42·2	49·2	38·5	43·9	54·2	42·0	48·1	59·8	46·6	53·2	65·0	52·2	58·6
6. SCOTLAND, W. AND ISLE OF MAN.																						
Laudale	56 41	5 41 W.	14	35	44·6	35·4	40·0	44·7	35·1	39·9	47·0	35·6	41·5	51·8	38·3	45·1	57·1	42·7	49·9	62·8	48·0	55·4
Poltalloch	56 8	5 30 W.	132	35	43·7	34·2	39·0	44·1	33·9	39·0	46·2	34·4	40·3	52·0	37·3	44·7	58·2	42·2	50·2	63·7	47·8	55·8
				40	*44·0*	*34·4*	*39·2*	*44·2*	*34·1*	*39·2*	*46·5*	*34·8*	*40·7*	*52·9*	*37·6*	*44·9*	*58·0*	*42·2*	*50·1*	*63·7*	*47·8*	*55·8*
Glasgow	55 53	4 18 W.	180	35	42·2	34·5	38·4	43·0	34·8	38·9	45·3	35·3	40·3	50·8	38·5	44·7	57·0	43·1	50·1	62·9	48·5	55·7
				40	*42·4*	*34·5*	*38·5*	*43·1*	*34·8*	*39·0*	*45·5*	*35·5*	*40·5*	*51·1*	*38·5*	*44·8*	*56·9*	*43·0*	*50·0*	*62·9*	*48·4*	*55·7*
Rothesay	55 50	5 4 W.	90	35	43·8	34·9	39·4	44·7	34·8	39·8	47·1	35·1	41·1	52·5	37·9	45·2	58·1	42·2	50·2	64·0	47·5	55·8
Dumfries	55 4	3 36 W.	160	35	42·7	32·5	37·6	44·4	32·7	38·6	47·3	33·5	40·4	53·4	36·7	45·1	59·4	41·5	50·5	65·8	47·5	56·7
Cally	54 52	4 12 W.	120	35	42·7	33·5	38·1	44·2	33·3	38·8	47·2	34·0	40·6	52·4	36·7	44·6	58·2	41·3	49·8	63·8	46·8	55·3
				40	*43·0*	*33·7*	*38·4*	*44·3*	*33·5*	*38·9*	*47·5*	*34·3*	*40·9*	*52·8*	*37·0*	*44·9*	*58·3*	*41·4*	*49·9*	*64·0*	*47·0*	*55·5*
Douglas	54 10	4 28 W.	277	35	44·4	36·7	40·6	44·7	36·3	40·5	46·5	36·3	41·4	50·7	39·0	44·9	56·4	43·0	49·7	61·9	48·3	55·1
7. ENGLAND, N.W. AND NORTH WALES.																						
Aspatria	54 46	3 21 W.	250	35	42·5	33·3	37·9	43·9	33·3	38·6	46·5	33·9	40·2	52·6	36·8	44·7	58·3	41·6	50·0	64·6	47·5	56·1
Newton Rigg	54 40	2 49 W.	559	35	41·8	31·6	36·7	43·0	30·8	36·9	46·1	32·2	39·2	51·5	35·7	43·6	58·7	40·1	49·4	66·1	45·8	56·0
Stonyhurst	53 51	2 28 W.	375	35	41·6	33·3	37·5	43·1	33·7	38·4	46·0	34·3	40·2	51·6	37·6	44·6	57·8	42·7	50·3	64·2	48·6	56·4
				40	*41·9*	*33·5*	*37·7*	*43·2*	*33·9*	*38·6*	*46·4*	*34·6*	*40·5*	*52·1*	*37·9*	*45·0*	*58·0*	*42·6*	*50·3*	*64·3*	*48·5*	*56·4*
Blackpool	53 49	3 3 W.	66	35	42·7	33·8	38·3	43·8	34·4	39·1	46·4	35·0	40·7	52·1	38·3	45·2	57·5	43·1	50·3	63·5	49·3	56·4
Southport	53 39	2 59 W.	37	35	42·5	34·2	38·4	44·0	34·7	39·4	46·7	35·5	41·1	52·3	38·6	45·5	58·0	43·6	50·8	63·5	49·8	56·7
				40	*42·8*	*34·4*	*38·6*	*44·0*	*34·7*	*39·4*	*47·0*	*35·7*	*41·4*	*52·5*	*38·8*	*45·7*	*57·9*	*43·7*	*50·8*	*63·4*	*49·8*	*56·6*
Prestwich	53 32	2 17 W.	320	35	42·1	33·2	37·7	43·6	33·7	38·7	46·9	34·5	40·7	52·3	37·8	45·1	58·3	42·6	50·5	64·7	48·4	56·6
				40	*43·4*	*33·3*	*37·9*	*43·8*	*33·5*	*38·7*	*47·4*	*34·7*	*41·1*	*52·9*	*37·9*	*45·4*	*58·5*	*42·5*	*50·5*	*64·9*	*48·3*	*56·6*
Liverpool (Bidston) ..	53 24	3 4 W.	188	35	43·1	35·0	39·1	44·2	35·6	39·9	46·8	36·7	41·8	52·3	40·1	46·2	58·0	45·0	51·5	63·7	51·1	57·4
				40	*43·4*	*35·2*	*39·3*	*44·2*	*35·6*	*39·9*	*47·1*	*36·8*	*42·0*	*52·6*	*40·3*	*46·5*	*58·0*	*45·0*	*51·5*	*63·8*	*51·0*	*57·4*
Hoylake	53 23	3 12 W.	30	35	44·1	35·3	39·7	45·5	35·9	40·7	47·9	37·0	42·5	53·3	40·2	46·8	58·8	44·8	51·8	64·6	51·0	57·8
Llandudno	53 20	3 50 W.	71	35	45·4	37·0	41·2	46·1	37·2	41·7	47·9	37·8	42·9	52·3	40·9	46·6	57·6	45·3	51·5	63·6	51·2	57·4
				40	*45·6*	*37·1*	*41·4*	*46·2*	*37·2*	*41·7*	*48·3*	*37·9*	*43·1*	*53·0*	*41·0*	*47·0*	*58·0*	*45·3*	*51·7*	*63·9*	*51·1*	*57·5*
Holyhead	53 18	4 39 W.	48	35	45·1	38·2	41·7	45·3	38·1	41·7	46·9	38·4	42·7	51·0	41·4	46·2	55·8	45·6	50·7	61·2	50·8	56·0
St. Asaph	53 15	3 23 W.	479	35	43·1	33·7	38·4	44·6	34·2	39·4	47·7	35·0	41·4	53·0	38·3	45·7	58·6	42·6	50·6	64·2	48·4	56·3
Hawarden Bridge ..	53 12	3 1 W.	22	35	44·6	34·7	39·7	46·1	35·0	40·6	48·6	36·3	42·5	54·3	39·7	47·0	59·6	44·7	52·2	65·5	50·6	58·1
Factors for computing Mean Temperature. *See* foot note.					0·520			0·500			0·485			0·476			0·470			0·465		

The third column under the name of each month gives the average of the readings of the maximum and minimum thermometers for that month. A closer approximation to the true a certain fraction of the difference between it and the average maximum reading. This fraction is different for

The averages for stations with less than 35 years observations are obtained by comparison with a neighbouring station or stations. Thus Margate has been compared with Southampton ; Laudale with Stornoway and Ardrossan ; Douglas with Donaghadee ; Aspatria with Stonyhurst ; Newton,

TEMPERATURE for EACH MONTH and for the WHOLE YEAR at STATIONS in the BRITISH ISLES.

been maintained for the 40 years 1871–1910 the Averages for that period are added in italics.]

July.			August.			September			October.			November.			December.			Whole Year.			STATIONS.
Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	
°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	
69·6	50·2	59·9	68·6	49·5	59·1	64·0	45·5	54·8	55·6	40·5	48·1	48·3	35·9	42·1	43·7	32·8	38·3	55·6	39·7	47·7	Marlborough.
68·9	54·9	61·9	68·8	55·4	62·1	64·6	52·6	58·6	56·9	46·3	51·6	48·8	40·6	44·7	44·8	35·9	40·4	55·3	44·2	49·8	Margate (1881).
69·6	52·2	60·9	68·8	52·0	60·4	65·4	48·5	57·0	55·6	42·8	49·2	48·3	37·6	43·0	43·1	33·7	38·4	55·4	41·4	48·4	Tunbridge Wells (1881–5 ; 1891).
69·0	51·3	60·2	68·2	50·9	59·6	63·6	47·0	55·3	55·5	41·4	48·5	48·4	36·4	42·4	43·7	33·2	38·5	55·3	40·5	47·9	Swarraton (1880).
73·7	50·4	62·1	72·8	49·7	61·0	67·2	45·5	56·4	58·3	40·0	49·2	50·7	35·0	42·9	45·3	31·8	38·6	58·5	39·2	48·9	Salisbury.
73·9	*50·4*	*62·2*	*72·6*	*49·7*	*61·2*	*67·3*	*45·7*	*56·5*	*58·3*	*40·0*	*49·2*	*50·5*	*34·9*	*42·7*	*45·3*	*31·8*	*38·6*	*58·6*	*39·2*	*48·9*	
66·5	55·4	61·0	67·2	56·0	61·6	64·0	52·4	58·2	57·2	46·3	51·8	50·4	40·7	45·6	45·6	36·6	41·1	54·7	44·4	49·6	Dungeness.
71·4	54·5	63·0	70·7	54·1	62·4	66·2	50·2	58·2	58·2	44·5	51·4	50·7	39·5	45·1	46·0	36·2	41·1	57·7	43·6	50·7	Southampton.
71·3	*54·5*	*62·9*	*70·6*	*54·2*	*62·4*	*66·1*	*50·4*	*58·3*	*58·0*	*44·5*	*51·3*	*50·5*	*39·4*	*45·0*	*45·8*	*36·1*	*41·0*	*57·6*	*43·6*	*50·6*	
67·3	54·9	61·1	67·7	55·3	61·5	64·2	52·1	58·2	57·0	46·4	51·7	50·0	40·9	45·5	45·2	36·8	41·0	55·1	44·4	49·8	St. Leonards.
69·1	55·3	62·2	69·0	55·5	62·3	65·3	52·0	58·7	57·5	46·4	52·0	50·3	41·1	45·7	45·4	37·0	41·2	56·1	44·6	50·4	Brighton (1871–85 ; 1889).
67·7	54·5	61·1	68·0	54·8	61·4	64·6	51·3	58·0	57·3	45·5	51·4	52·1	40·2	46·2	46·8	36·3	41·6	55·9	43·8	49·9	Worthing (1881).
69·7	55·0	62·4	69·6	55·4	62·5	65·3	51·6	58·5	57·8	45·8	51·8	50·7	40·6	45·7	46·1	37·0	41·6	56·7	44·2	50·5	Portsmouth (1881).
66·6	54·4	60·5	66·9	54·9	60·9	63·1	51·6	57·4	56·8	46·0	51·4	50·4	40·7	45·6	45·7	36·8	41·3	55·0	44·2	49·6	Bognor (1898).
67·5	55·1	61·3	68·2	55·6	61·9	64·6	52·1	58·4	56·2	45·5	50·9	49·8	40·5	45·2	45·4	36·6	41·0	55·5	44·4	50·0	Eastbourne.
67·9	*55·1*	*61·5*	*68·7*	*55·5*	*62·1*	*64·9*	*52·1*	*58·5*	*56·3*	*45·5*	*50·9*	*49·6*	*40·4*	*45·0*	*45·2*	*36·6*	*40·9*	*55·8*	*44·4*	*50·1*	
66·5	55·0	60·8	67·4	56·0	61·7	63·7	51·8	57·8	56·8	46·5	51·7	50·3	41·6	46·0	45·8	37·8	41·8	55·2	44·6	49·9	Totland Bay (1889).
67·8	55·8	61·8	68·2	56·5	62·4	65·0	53·8	59·4	58·2	48·4	53·3	51·8	43·2	47·5	47·4	39·4	43·4	56·6	46·0	51·3	Ventnor.
63·5	50·6	57·1	63·1	50·7	56·9	60·2	47·9	54·1	53·8	42·1	48·0	48·4	38·5	43·5	45·6	35·9	40·8	53·5	41·7	47·6	Laudale (1879).
64·4	50·5	57·5	64·1	50·4	57·3	60·9	47·2	54·1	53·9	41·5	47·7	48·3	37·7	43·0	44·3	34·8	39·6	53·7	41·0	47·4	Poltalloch.
64·8	*50·6*	*57·7*	*64·3*	*50·5*	*57·4*	*60·9*	*47·2*	*54·1*	*53·9*	*41·5*	*47·7*	*48·1*	*37·5*	*42·8*	*44·4*	*34·7*	*39·6*	*53·8*	*41·1*	*47·5*	
64·2	51·3	57·8	63·1	51·0	57·1	59·1	47·7	53·4	52·3	42·4	47·4	46·5	38·3	42·4	42·9	35·2	39·1	52·4	41·7	47·1	Glasgow.
64·4	*51·3*	*57·9*	*63·2*	*51·0*	*57·1*	*59·1*	*47·5*	*53·3*	*52·2*	*42·2*	*47·2*	*46·3*	*38·0*	*42·2*	*42·9*	*35·0*	*39·0*	*52·5*	*41·6*	*47·1*	
64·8	50·1	57·5	64·4	49·9	57·2	61·0	47·0	54·0	54·2	42·1	48·2	48·3	38·6	43·5	44·5	35·7	40·1	54·0	41·3	47·7	Rothesay.
67·0	50·4	58·7	66·1	49·8	58·0	62·4	45·8	54·1	54·6	40·4	47·5	47·8	36·1	42·0	43·2	33·1	38·2	54·5	40·0	47·3	Dumfries.
65·2	49·4	57·3	63·9	48·9	56·4	60·3	45·9	53·1	53·9	40·6	47·3	47·9	36·5	42·2	43·6	33·9	38·8	53·6	40·1	46·9	Cally.
65·6	*49·8*	*57·7*	*64·4*	*49·3*	*56·9*	*60·5*	*46·0*	*53·3*	*54·0*	*40·7*	*47·4*	*47·8*	*36·5*	*42·2*	*43·6*	*33·9*	*38·8*	*53·8*	*40·3*	*47·1*	
63·6	51·2	57·4	63·1	51·1	57·1	60·2	48·4	54·3	54·1	43·7	48·9	49·2	40·2	44·7	45·7	37·4	41·6	53·4	42·6	48·0	Douglas (1878).
65·8	50·5	58·2	65·4	50·5	58·0	62·2	46·8	54·5	54·1	41·6	47·9	47·9	37·1	42·5	43·4	33·9	38·7	53·9	40·6	47·3	Aspatria (1901).
67·6	49·0	58·3	65·5	48·5	57·0	62·0	44·5	53·3	53·5	39·7	46·6	46·6	34·4	40·5	41·9	31·5	36·7	53·7	38·7	46·2	Newton Rigg (1900).
65·7	51·7	58·7	64·6	51·4	58·0	60·9	47·8	54·4	53·1	42·4	47·8	47·1	37·9	42·5	42·8	34·0	38·4	53·2	41·3	47·3	Stonyhurst.
66·1	*51·6*	*58·9*	*65·0*	*51·4*	*58·2*	*61·0*	*47·8*	*54·4*	*53·3*	*42·3*	*47·8*	*47·1*	*37·7*	*42·4*	*42·8*	*34·0*	*38·4*	*53·4*	*41·3*	*47·4*	
65·2	53·0	59·1	64·8	52·7	58·8	61·7	49·2	55·5	54·8	43·4	49·1	48·5	38·4	43·5	44·1	34·7	39·4	53·8	42·1	48·0	Blackpool (1880).
65·1	53·3	59·2	65·0	52·9	59·0	61·7	49·0	55·4	54·6	43·4	49·0	48·1	38·5	43·3	43·8	35·1	39·5	53·8	42·3	48·1	Southport.
65·2	*53·4*	*59·3*	*65·1*	*53·0*	*59·1*	*61·7*	*49·1*	*55·4*	*54·5*	*43·4*	*49·0*	*48·0*	*38·4*	*43·2*	*43·7*	*35·1*	*39·4*	*53·8*	*42·5*	*48·2*	
66·7	51·6	59·2	65·8	51·4	58·6	61·9	47·7	54·8	54·2	42·2	48·2	47·6	37·6	42·6	43·2	33·9	38·6	53·9	41·2	47·6	Prestwich.
67·1	*51·6*	*59·4*	*66·2*	*51·3*	*58·8*	*62·1*	*47·7*	*54·9*	*54·4*	*42·1*	*48·3*	*47·6*	*37·4*	*42·5*	*43·2*	*33·7*	*38·5*	*54·2*	*41·2*	*47·7*	
65·6	54·2	59·9	65·1	54·0	59·6	61·3	50·8	56·1	54·1	44·8	49·5	48·3	40·0	44·2	44·4	36·3	40·4	53·9	43·6	48·8	Liverpool.
65·8	*54·2*	*60·0*	*65·3*	*54·1*	*59·7*	*61·4*	*50·8*	*56·1*	*54·1*	*44·8*	*49·5*	*48·1*	*39·9*	*44·0*	*44·3*	*36·3*	*40·3*	*54·0*	*43·7*	*48·9*	
66·4	53·8	60·1	66·2	54·0	60·1	63·1	50·4	56·8	55·8	44·9	50·4	49·8	40·1	45·0	45·3	36·5	40·9	55·1	43·7	49·4	Hoylake (1899).
65·9	54·2	60·1	65·6	54·2	59·9	62·4	51·5	57·0	55·7	46·2	51·0	50·3	41·6	46·0	46·6	38·3	42·5	54·9	44·6	49·8	Llandudno.
66·5	*54·2*	*60·4*	*66·1*	*54·3*	*60·2*	*62·6*	*51·4*	*57·0*	*55·8*	*46·1*	*51·0*	*50·2*	*41·4*	*45·8*	*46·6*	*38·2*	*42·4*	*55·2*	*44·6*	*49·9*	
63·3	53·6	58·5	63·4	54·1	58·8	60·8	51·9	56·4	54·9	47·0	51·0	50·1	42·8	46·5	46·6	39·5	43·1	53·7	45·1	49·4	Holyhead.
66·0	51·4	58·7	65·9	51·8	58·9	62·2	48·7	55·5	54·4	42·9	48·7	48·4	38·6	43·5	44·2	35·1	39·7	54·4	41·7	48·1	St. Asaph (1893).
67·7	53·4	60·6	67·6	53·6	60·6	63·6	49·3	56·5	56·2	44·1	50·2	50·1	38·9	44·5	45·7	35·9	40·8	55·8	43·0	49·4	Hawarden Bridge (1901).
0·465			**0·470**			**0·476**			**0·485**			**0·500**			**0·520**			—			

mean temperature may be obtained,—according to the practice followed in the compilation of the tables of the Weekly Weather Report,—by adding to the average minimum reading different months, and is represented by the factors entered at the foot of the columns of the several months. [Strachey: Quarterly Weather Report, Appendix II., 1878.]

Yarmouth ; Tunbridge Wells with Kew ; Swarraton with Southampton ; Brighton with Worthing ; Worthing with Brighton ; Portsmouth, Bognor, and Totland Bay with Rigg with Durham ; Blackpool with Southport ; Hoylake and Hawarden Bridge with Liverpool ; St. Asaph with Prestwich.

TABLE I. (*continued*).—SHOWING the AVERAGES of DAILY MAXIMUM, MINIMUM and MEAN

[The Averages refer to the period of 35 years 1876-1910. For some places where records have

DISTRICT AND STATION.	Lat. N.	Long.	Height of Station (H) above M.S.L.	No. of Years ending 1910.	January.			February.			March.			April.			May.			June.		
					Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
8. SOUTH WALES AND ENGLAND, S.W.	° ′	° ′	Feet.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.
Llangammarch Wells	52 7	3 32 W.	550	15	43·4	32·5	38·0	44·4	31·9	38·2	47·7	32·6	40·2	53·0	35·8	44·4	59·3	39·7	49·5	65·0	45·9	55·5
Pembroke (St. Ann's Hd.).	51 41	5 11 W.	149	35	45·7	39·2	42·5	45·6	39·0	42·3	46·5	38·9	42·7	50·3	41·9	46·1	55·0	45·9	50·5	60·1	51·4	55·8
Clifton	51 27	2 37 W	229	35	43·6	35·1	39·4	45·4	36·0	40·7	48·5	36·5	42·5	54·0	41·1	47·6	61·3	46·2	53·8	67·2	52·4	59·8
Woolacombe	51 10	4 12 W.	59	35	46·3	39·2	42·8	47·5	39·8	43·7	49·5	39·6	44·6	54·1	43·3	48·7	59·2	48·1	53·7	64·8	53·7	59·3
Arlington	51 8	3 58 W.	613	35	43·8	34·1	39·0	45·0	34·7	39·9	47·6	35·1	41·4	52·8	38·6	45·7	58·5	43·1	50·8	64·1	48·9	56·5
Barnstaple	51 5	4 3 W.	24	35	46·2	36·8	41·5	47·8	37·4	42·6	50·3	37·9	44·1	55·5	41·7	48·6	61·4	46·3	53·9	67·0	52·1	59·6
				40	*46·5*	*37·1*	*41·8*	*47·8*	*37·6*	*42·7*	*50·6*	*38·3*	*44·5*	*55·8*	*42·0*	*48·9*	*61·7*	*46·4*	*54·1*	*67·1*	*52·1*	*59·6*
Shaftesbury	51 1	2 12 W.	722	35	41·4	33·2	37·3	43·1	34·0	38·6	46·7	34·8	40·8	52·3	38·6	45·5	58·5	43·1	50·8	64·3	49·0	56·7
Cullompton	50 51	3 23 W.	202	35	45·0	33·9	39·5	46·9	34·8	40·9	50·2	35·2	42·7	55·8	38·8	47·3	61·9	43·5	52·7	67·8	49·2	58·5
Rousdon	50 43	3 0 W.	515	35	43·8	35·1	39·5	44·9	35·1	40·0	47·5	35·9	41·7	52·0	39·2	45·6	57·5	43·8	50·7	62·8	49·6	56·2
Portland Bill .. .	50 32	2 27 W.	19	35	45·2	38·2	41·7	45·7	38·4	42·1	47·6	38·6	43·1	51·7	42·3	47·0	56·8	46·5	51·7	61·9	52·1	57·0
Newquay	50 25	5 4 W.	190	35	47·0	40·0	43·5	47·4	39·9	43·7	48·4	40·0	44·2	52·1	43·3	47·7	56·8	47·0	51·9	61·6	52·3	57·0
Plymouth	50 22	4 8 W.	116	35	46·5	37·4	42·0	47·4	37·7	42·6	49·7	38·0	43·9	54·3	41·8	48·1	59·7	46·4	53·1	64·9	52·0	58·5
				40	*46·8*	*37·6*	*42·2*	*47·5*	*37·8*	*42·7*	*50·0*	*38·3*	*44·2*	*54·6*	*42·0*	*48·3*	*59·9*	*46·4*	*53·2*	*65·0*	*52·1*	*58·6*
Falmouth	50 9	5 4 W.	167	35	46·8	39·9	43·4	47·2	39·9	43·6	48·6	39·8	44·2	52·3	42·9	47·6	57·2	46·8	52·0	62·7	52·2	57·5
				40	*47·0*	*40·1*	*43·6*	*47·2*	*40·1*	*43·7*	*48·7*	*40·1*	*44·4*	*52·4*	*43·1*	*47·8*	*57·2*	*46·9*	*52·1*	*62·7*	*52·2*	*57·5*
9. IRELAND, N.																						
Malin Head	55 23	7 24 W.	208	25	44·5	37·5	41·0	44·4	37·2	40·8	45·9	37·7	41·8	49·4	40·7	45·1	54·1	44·9	49·5	58·8	49·8	54·3
Donaghadee	54 38	5 32 W.	40	35	44·6	36·1	40·4	45·5	36·1	40·8	47·2	36·5	41·9	50·7	40·1	45·4	55·8	44·0	49·9	60·9	49·2	55·1
Armagh	54 21	6 39 W.	196	35	43·7	34·5	39·1	45·3	34·7	40·0	47·8	35·0	41·4	52·6	37·8	45·2	58·3	42·5	50·4	63·9	48·2	56·1
				40	*43·6*	*34·6*	*39·1*	*45·1*	*34·8*	*40·0*	*47·8*	*35·3*	*41·6*	*53·8*	*38·1*	*45·5*	*58·2*	*42·6*	*50·4*	*63·8*	*48·3*	*56·1*
Markree Castle ..	54 11	8 27 W.	122	35	44·8	34·2	39·5	46·3	34·6	40·5	48·7	34·7	41·7	53·2	37·7	45·5	58·3	42·0	50·2	63·2	47·4	55·3
Blacksod Point	54 6	10 4 W.	37	25	46·5	38·8	42·7	46·6	38·1	42·4	47·9	38·7	43·3	51·4	41·9	46·7	55·9	45·9	50·9	60·8	51·0	55·9
10. IRELAND, S.																						
Dublin (Glasnevin) ..	53 23	6 16 W.	67	35	45·8	35·1	40·5	47·0	35·4	41·2	49·1	35·3	42·2	53·0	38·1	45·6	58·2	42·1	50·2	64·2	48·0	56·1
Dublin (Phœnix Park)	53 22	6 21 W.	155	35	45·5	34·6	40·1	46·5	34·7	40·6	48·6	34·6	41·6	52·4	37·5	45·0	57·7	41·4	49·6	63·6	47·1	55·4
Dublin (City)	53 20	6 15 W,	47	35	46·0	37·3	41·7	46·9	37·7	42·3	49·1	37·9	43·5	53·3	41·1	47·2	58·9	45·6	52·3	64·4	51·3	57·9
				40	*46·1*	*37·4*	*41·8*	*46·9*	*37·8*	*42·4*	*49·2*	*38·2*	*43·7*	*53·5*	*41·3*	*47·4*	*58·9*	*45·6*	*52·3*	*64·3*	*51·2*	*57·8*
Birr Castle	53 6	7 55 W.	175	35	45·1	34·1	39·6	46·8	34·6	40·7	49·3	34·6	42·0	54·0	38·1	46·1	59·6	42·5	51·1	64·9	48·7	56·8
Kilkenny Castle ..	52 39	7 14 W.	212	35	45·4	34·4	39·9	46·9	35·3	41·1	49·4	35·7	42·6	53·9	39·0	46·5	59·5	43·3	51·4	65·0	49·0	57·0
Foynes	52 37	9 7 W.	108	35	46·8	37·0	41·9	47·7	37·5	42·6	49·9	37·9	43·9	54·0	40·7	47·4	59·4	44·8	52·1	64·2	50·2	57·2
Killarney	52 4	9 30 W.	174	35	48·0	36·9	42·5	48·8	37·1	43·0	50·8	37·2	44·0	54·8	39·9	47·4	59·9	43·7	51·8	64·8	49·1	57·0
Valencia	51 56	10 15 W.	30	35	48·8	40·0	44·4	49·1	39·9	44·5	50·4	39·8	45·1	53·4	42·5	48·0	57·9	46·0	52·0	62·2	51·0	56·6
				40	*49·9*	*40·2*	*44·6*	*49·2*	*40·1*	*44·7*	*50·6*	*40·1*	*45·4*	*53·6*	*42·8*	*48·2*	*58·0*	*46·3*	*52·2*	*62·3*	*51·2*	*56·8*
Roche's Point	51 47	8 15 W.	32	35	47·5	39·3	43·4	48·0	39·3	43·7	49·4	39·3	44·4	52·9	42·2	47·6	57·7	46·3	52·0	63·0	51·4	57·2
11. ENGLISH CHANNEL.																						
Scilly (St. Mary's) ..	49 56	6 18 W.	131	35	49·0	42·5	45·8	49·0	42·1	45·6	49·9	42·1	46·0	52·6	44·7	48·7	56·4	48·2	52·3	61·3	53·2	57·3
				40	*49·1*	*42·6*	*45·9*	*49·0*	*42·2*	*45·6*	*49·9*	*42·3*	*46·1*	*52·7*	*44·9*	*48·8*	*56·6*	*48·3*	*52·5*	*61·5*	*53·3*	*57·4*
Guernsey (Brooklyn)	49 27	2 31 W.	295	35	46·7	39·7	43·2	47·1	39·9	43·5	49·3	40·5	44·9	53·3	43·6	48·5	58·4	47·3	52·9	63·4	52·1	57·8
Jersey	49 12	2 11 W	25	35	46·3	38·4	42·4	47·1	38·8	43·0	49·7	39·8	44·8	54·3	43·6	49·0	59·5	47·6	53·6	64·8	52·9	58·9
				40	*46·4*	*38·5*	*42·5*	*47·2*	*38·8*	*43·0*	*50·0*	*39·9*	*45·0*	*54·7*	*43·8*	*49·3*	*59·8*	*47·6*	*53·7*	*65·0*	*52·9*	*59·0*
Factors for computing Mean Temperature. *See* foot note.					**0·520**			**0·500**			**0·485**			**0·476**			**0·470**			**0·465**		

The third column under the name of each month gives the average of the readings of the maximum and minimum thermometers for that month. A closer approximation to the true a certain fraction of the difference between it and the average maximum reading. This fraction is different for different months, and

NOTE.—The temperatures quoted in Table I. are computed from observations of the thermometers exposed in Stevenson thermometer-screens

The averages for stations with less than 35 years observations are obtained by comparison with a neighbouring station or stations. Thus, Clifton has been compared with Marlborough ; Falmouth ; Glasnevin and Dublin (Phœnix Park) with Dublin (City) ;

Charts for each month and for the year representing the normal geographical distribution of Day temperature and Night temperature over

TEMPERATURE for EACH MONTH and for the WHOLE YEAR at STATIONS in the BRITISH ISLES.

been maintained for the 40 years 1871–1910 the Averages for that period are added in italics.]

July.			August.			September.			October.			November.			December.			Whole Year.			STATIONS.
Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	
°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F	°F.	°F.	°F.	
68·1	48·9	58·5	66·5	48·6	57·6	62·4	44·4	53·4	55·3	40·7	48·0	47·9	34·8	41·4	44·6	33·5	39·1	54·8	39·1	47·0	*Llangammarch Wells (1896).*
62·3	54·7	58·5	62·8	55·3	59·1	60·6	52·9	56·8	55·3	48·2	51·8	50·9	43·8	47·4	47·8	40·9	44·4	53·6	46·0	49·8	Pembroke (St. Ann's Hd.).
69·7	56·2	63·0	68·7	55·6	62·2	64·3	51·9	58·1	55·9	44·9	50·4	49·1	40·3	44·7	45·1	36·5	40·8	56·1	44·4	50·3	Clifton (1893).
66·4	57·0	61·7	67·1	57·4	62·3	64·1	54·7	59·4	57·8	49·4	53·6	52·1	41·8	48·5	48·0	40·8	44·4	56·4	47·3	51·9	Woolacombe (1896).
65·9	51·9	58·9	65·9	51·9	58·9	61·7	49·0	55·4	55·2	43·8	49·5	49·2	39·0	44·1	45·2	35·6	40·4	54·6	42·1	48·4	Arlington (1881).
69·1	55·0	62·1	68·9	54·8	61·9	65·0	51·2	58·1	58·0	45·7	51·9	51·9	41·2	46·6	47·8	38·0	42·9	57·4	44·8	51·1	Barnstaple.
69·3	*55·1*	*62·2*	*69·2*	*55·0*	*62·1*	*65·1*	*51·4*	*58·3*	*58·0*	*45·9*	*52·0*	*51·8*	*41·2*	*46·5*	*47·7*	*37·9*	*42·8*	*57·6*	*45·0*	*51·3*	
67·5	52·6	60·1	66·8	52·2	59·5	62·6	49·3	56 0	54·4	43·6	49·0	47·7	38·7	43·2	43·1	34·7	38·9	54·0	42·0	48·0	Shaftesbury (1895).
70·2	52·1	61·2	69·7	51·5	60·6	64·8	47·9	56·4	57·4	42·6	50·0	50·5	38·0	44·3	46·2	35·1	40·7	57·2	41·9	49·6	Cullompton (1881).
65·6	52·7	59·2	65·3	53·0	59·2	62·0	49 6	55·8	55·7	44·5	50·1	49·8	39·6	44·7	45·6	36·3	41·0	54·4	42·9	48·7	Rousdon (1886).
64·7	55·9	60·3	65·5	56·8	61·2	63·0	53·8	58·4	56·9	48·6	52·8	51·6	43·7	47·7	47·7	40·5	44·1	54·9	46·3	50·6	Portland Bill (1900).
64·7	55·8	60·3	65·0	56·1	60·6	62·6	53·2	57·9	56·9	48·5	52·7	52·1	44·1	48·1	48·9	41·4	45·2	55·3	46·8	51·1	Newquay (1893).
67·5	54·8	61·2	67·2	54·9	61·1	63·7	51·4	57·6	57·3	46·0	51·7	51·8	41·6	46·7	48·2	38·9	43·6	56·5	45·1	50·8	Plymouth.
67·6	*54·9*	*61·3*	*67·4*	*55·0*	*61·2*	*63·8*	*51·6*	*57·7*	*57·3*	*46·0*	*51·7*	*51·7*	*41·6*	*46·7*	*48·0*	*38·7*	*43·4*	*56·6*	*45·2*	*50·9*	
65·8	55·1	60·5	65·4	55·4	60·4	61·9	52·8	57·4	56·1	47·9	52·0	51·4	44·1	47·8	48·4	41·4	44·9	55·3	46·5	50·9	Falmouth.
65·8	*55·2*	*60·5*	*65·5*	*55·5*	*60·5*	*61·9*	*52·9*	*57·4*	*56·1*	*48·0*	*52·1*	*51·3*	*44·1*	*47·7*	*48·3*	*41·4*	*44·9*	*55·3*	*46·6*	*51 0*	
60·6	52·4	56·5	61·0	52·9	57·0	58·8	50·7	54·8	53·0	45·6	49·3	48·6	41·8	45·2	45·6	38·6	42·1	52·1	44·1	48·1	*Malin Head (1886).*
63·3	51·8	57·6	63·1	52·0	57·6	60·2	49·3	54·8	54·1	44·1	49·1	49·1	39·8	44·5	45·6	36·8	41·2	53·3	43·1	48·2	Donaghadee.
65·5	51·0	58·3	64·7	50·7	57·7	60·9	47·1	54·0	53·8	41·8	47·8	48·3	37·6	43·0	44·1	34·8	39·5	54·1	41·3	47·7	Armagh.
65·6	*51·2*	*58·4*	*64·7*	*50·9*	*57·8*	*60·6*	*47·2*	*53·9*	*53·6*	*41·7*	*47·7*	*47·9*	*37·5*	*42·7*	*43·9*	*34·7*	*39·3*	*54·0*	*41·4*	*47·7*	
64·6	50·2	57·4	64·3	49·7	57·0	61·2	46·3	53·8	54·7	40·9	47·8	49·1	36·9	43·0	45·2	34·5	39·9	54·5	40·8	47·7	Markree Castle.
62·3	53·4	57·9	62·0	53·5	57·8	60·0	51·2	55·6	54·5	45·9	50·2	50·3	42·1	46·2	47·5	39·8	43·7	53·8	45·0	49·4	*Blacksod Point (1886).*
66·8	51·3	59·1	66·1	50·7	58·4	62·4	47·0	54·7	55·6	41·8	48·7	50·2	38·0	44·1	46·2	35·3	40·8	55·4	41·5	48·5	Glasnevin (1881)
66·0	50·6	58·3	65·3	50·0	57·7	61·7	46·2	54·0	54·9	41·4	48·2	49·7	37·4	43·6	45·9	34·8	40·4	54·8	40·9	47·9	Dublin (Phœnix Park) (1881).
66·6	54·1	60·4	65·7	53·5	59·6	61·8	50·1	56·0	55·0	44·7	49·9	50·0	40·6	45·3	46·5	37·7	42·1	55·4	44·3	49·9	Dublin (City).
66·7	*54·1*	*60·4*	*65·8*	*53·6*	*59·7*	*61·7*	*50·2*	*56·0*	*55·0*	*44·6*	*49·8*	*49·9*	*40·7*	*45·3*	*46·4*	*37·7*	*42·1*	*55·4*	*44·4*	*49·9*	
66·2	51·7	59·0	65·6	51·2	58·4	61·9	47·2	54·6	54·9	40·9	47·9	49·2	36·8	43·0	45·7	34·4	40·1	55·3	41·3	48·3	Birr Castle.
67·0	52·0	59·5	66·3	51·2	58·8	62·4	47·7	55·1	55·4	41·8	48·6	49·7	37·4	43·6	45·9	34·4	40·2	55·6	41·8	48·7	Kilkenny Castle (1885).
65·3	53·1	59·2	65·0	52·5	58·8	61·8	49·6	55·7	55·3	44·5	49·9	50·2	40·2	45·2	47·7	37·8	42·8	55·6	43·8	49·7	Foynes (1884).
66·5	52·1	59·3	66·0	52·2	59·1	63·1	49·1	56·1	56·8	43·4	50·1	51·7	39·4	45·6	48·9	37·7	43·3	56·7	43·2	50·0	Killarney (1881)
63·9	53·7	58·8	64·2	53·9	59·1	61·8	51·3	56·6	56·5	46·5	51·5	52·2	42·7	47·5	49·9	40·8	45·4	55·8	45·7	50·8	Valencia.
63·9	*53·9*	*58·9*	*64·3*	*54·1*	*59·2*	*61·8*	*51·3*	*56·6*	*56·5*	*46·5*	*51·5*	*52·2*	*42·8*	*47·5*	*49·9*	*40·8*	*45·4*	*55·9*	*45·8*	*50·9*	
65·2	53·8	59·5	64·9	53·8	59·4	61·8	51·3	56·6	56·1	46·4	51·3	51·3	42·3	46·8	48·6	40·2	44·4	55·5	45·5	50·5	Roche's Point.
64·7	56·4	60·6	65·0	56·9	61·0	62·3	54·8	58·6	57·3	50·3	53·8	53·2	46·4	49·8	50·6	44·1	47·4	55·9	48·5	52·2	Scilly (St. Mary's).
64·8	*56·5*	*60·7*	*65·2*	*57·1*	*61·2*	*62·3*	*54·9*	*58·6*	*57·2*	*50·3*	*53·8*	*53·0*	*46·4*	*49·7*	*50·3*	*43·9*	*47·1*	*56·0*	*48·6*	*52·3*	
66·9	55·5	61·2	67·2	56·6	61·9	64·4	54·6	59·5	58·1	49·9	54·0	52·4	45·3	48·9	48·6	41·6	46·1	56·3	47·2	51·8	Guernsey (Brooklyn).
68·3	56·3	62·3	68·8	57·2	63·0	65·8	54·7	60·3	59·0	49·4	54·2	52·8	44·3	48·6	48·4	40·7	44·6	57·1	47·0	52·1	Jersey.
68·6	*56·4*	*62·5*	*69·1*	*57·3*	*63·2*	*66·0*	*54·8*	*60·4*	*59·0*	*49·2*	*54·1*	*52·7*	*44·1*	*48·4*	*48·3*	*40·4*	*44·4*	*57·2*	*47·0*	*52·1*	
0·465			**0·470**			**0·476**			**0·485**			**0·500**			**0·520**			—			

mean temperature may be obtained,—according to the practice followed in the compilation of the tables of the Weekly Weather Report,—by adding to the average minimum reading is represented by the factors entered at the foot of the columns of the several months. [Strachey: Quarterly Weather Report, Appendix II., 1878.]

except in the cases of Barnet, London (Camden Square), Salisbury and Carlisle, where screens of the Glaisher pattern were in use.

Woolacombe, Arlington, and Cullompton with Barnstaple; Shaftesbury with Southampton; Rousdon with Plymouth; Portland Bill with Plymouth and Ventnor; Newquay with Kilkenny Castle with Birr Castle; Foynes and Killarney with Valencia.

the British Isles according to the figures here given have been printed at the Meteorological Office Press to accompany these tables.

TABLE II.—Showing the Averages of Rainfall and Number of Rain-Days for each Month and for the whole where records have been maintained for the 40 Years 1871–1910,

District and Station.	Lat. N.	Long.	Height of Station (H) above M.S.L.	No. of Years ending 1910.	January.		February.		March.		April.		May.		June.	
					Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.
0. SCOTLAND, N.	° ′	° ′	Feet.		in.		in.		in.		in.		in.		in.	
Sumburgh Head ..	59 51	1 17 W.	112	35	3·94	27	2·98	22	2·95	25	2·02	19	1·91	18	1·71	15
				40	*4·03*	*26*	*2·92*	*22*	*2·90*	*24*	*2·11*	*18*	*1·89*	*17*	*1·84*	*15*
Deerness	58 56	2 45 W.	160	35	3·44	22	3·00	19	2·87	20	1·96	16	2·01	15	1·91	13
Wick	58 27	3 6 W.	81	35	2·42	21	2·24	19	2·25	21	1·96	18	2·05	18	1·82	15
				40	*2·41*	*20*	*2·17*	*18*	*2·16*	*20*	*1·93*	*17*	*1·96*	*17*	*1·84*	*15*
Stornoway	58 11	6 22 W.	51	35	5·06	25	4·28	22	3·90	23	2·77	18	2·53	19	2·42	16
Lairg	58 1	4 22 W.	387	35	3·62	19	3·26	18	3·27	20	2·45	16	2·24	16	2·23	14
Dunrobin Castle ..	57 59	3 56 W.	12	35	2·74	15	2·63	14	2·66	16	2·07	12	2·26	13	2·04	12
				40	*2·76*	*15*	*2·53*	*14*	*2·53*	*16*	*2·06*	*12*	*2·15*	*14*	*2·08*	*12*
Strathpeffer Spa ..	57 37	4 28 W.	200	35	3·16	17	2·65	15	2·74	18	1·82	14	2·04	16	2·01	13
Glencarron	57 30	5 14 W.	500	26	10·43	24	7·27	20	7·71	23	5·54	20	4·61	20	4·03	17
Fort Augustus	57 8	4 40 W.	68	27	5·78	22	4·12	18	3·66	19	2·37	16	2·41	17	1·97	14
Fort William	56 49	5 7 W.	171	35	9·58	23	7·25	19	6·72	21	3·89	17	3·84	17	3·79	15
1. SCOTLAND, E.																
Gordon Castle ..	57 37	3 5 W.	101	35	1·98	15	1·94	15	2·35	17	1·83	15	2·10	15	2·11	14
				40	*1·96*	—	*1·88*	—	*2·27*	—	*1·83*	—	*2·14*	—	*2·17*	—
Nairn	57 36	3 52 W.	82	35	1·98	18	1·73	16	1·93	18	1·45	16	1·75	16	1·82	15
				40	*1·96*	*18*	*1·61*	*15*	*1·88*	*17*	*1·40*	*16*	*1·74*	*16*	*1·87*	*15*
Aberdeen*	57 10	2 6 W.	46	35	2·08	18	2·13	17	2·42	20	2·08	18	2·29	17	1·88	15
				40	*2·09*	*18*	*2·18*	*17*	*2·37*	*19*	*2·09*	*17*	*2·26*	*17*	*1·90*	*15*
Tillypronie	57 10	2 56 W.	1,116	35	2·06	17	2·15	16	2·69	19	2·23	17	2·43	17	2·28	15
				40	*2·00*	*17*	*2·10*	*16*	*2·56*	*18*	*2·22*	*17*	*2·41*	*17*	*2·29*	*15*
Braemar	57 0	3 24 W.	1,120	35	2·83	18	2·59	16	2·85	18	2·33	16	2·33	16	2·17	17
				40	*2·95*	*18*	*2·62*	*15*	*2·74*	*17*	*2·32*	*16*	*2·39*	*16*	*2·26*	*14*
Balruddery	56 29	3 8 W.	276	35	2·20	15	2·20	13	2·39	13	2·07	12	2·11	13	1·99	12
Dundee	56 28	2 56 W.	160	35	1·95	16	1·92	14	2·04	15	1·97	13	2·07	14	2·00	13
				40	*2·04*	*16*	*2·02*	*14*	*1·98*	*15*	*1·96*	*13*	*2·08*	*14*	*2·04*	*12*
Ochtertyre	56 23	3 53 W.	296	35	4·13	19	3·32	15	3·05	16	2·34	14	2·50	15	2·86	13
Stronvar	56 23	4 15 W.	422	35	8·58	—	6·51	—	6·08	—	4·28	—	4·02	—	3·87	—
Leith	55 58	3 10 W.	18	35	1·73	15	1·45	14	1·68	16	1·46	14	1·83	15	1·82	14
				40	*1·77*	*15*	*1·43*	*13*	*1·64*	*16*	*1·47*	*14*	*1·80*	*15*	*1·85*	*14*
Blackford Hill (Edinourgh).	55 57	3 12 W.	441	35	1·83	—	1·54	—	1·72	—	1·48	—	1·75	—	1·97	—
Marchmont	55 44	2 25 W.	498	35	2·31	16	2·16	15	2·62	17	2·32	16	2·53	15	2·32	13
				40	*2·39*	*17*	*2·22*	*15*	*2·58*	*17*	*2·38*	*16*	*2·53*	*16*	*2·39*	*14*
2. ENGLAND, N.E.																
Alnwick Castle ..	55 25	1 43 W.	210	35	2·16	16	2·08	15	2·46	17	2·08	16	2·45	15	2·03	12
Cockle Park	55 13	1 41 W.	321	35	2·08	18	1·98	16	2·35	17	1·99	17	2·48	16	2·21	13
Shields	55 0	1 27 W.	96	35	1·53	14	1·43	14	1·74	15	1·63	15	1·91	14	1·81	13
				40	*1·56*	*15*	*1·46*	*15*	*1·71*	*15*	*1·63*	*15*	*1·91*	*14*	*1·82*	*13*
Newcastle-on-Tyne..	54 59	1 36 W.	152	35	1·75	17	1·59	16	2·06	*16*	1·84	17	1·95	15	1·90	14
Seaham	54 50	1 19 W.	139	35	1·65	15	1·57	15	1·91	15	1·84	15	2·11	15	1·88	13
				40	*1·66*	*15*	*1·56*	*15*	*1·86*	*15*	*1·81*	*15*	*2·09*	*15*	*1·92*	*13*
Durham	54 46	1 35 W.	336	35	1·64	16	1·41	15	1·88	16	1·84	16	2·04	15	1·90	13
				40	*1·75*	*16*	*1·50*	*15*	*1·88*	*16*	*1·88*	*16*	*2·06*	*15*	*1·93*	*13*
Whitby	54 29	0 37 W.	124	35	1·69	—	1·66	—	1·87	—	1·70	—	1·92	—	1·88	—
				40	*1·69*	—	*1·64*	—	*1·82*	—	*1·67*	—	*1·95*	—	*1·89*	—
Rounton	54 24	1 18 W.	249	35	1·65	17	1·57	15	1·85	17	1·79	15	2·01	16	2·11	14
Scarborough	54 18	0 24 W.	100	35	1·90	17	1·80	16	1·85	16	1·79	15	1·95	14	1·87	13
				40	*1·87*	*17*	*1·77*	*16*	*1·80*	*16*	*1·74*	*14*	*1·96*	*14*	*1·90*	*13*
York	53 57	1 5 W.	58	35	1·63	17	1·60	16	1·70	16	1·74	15	2·01	14	2·02	13
				40	*1·68*	*16*	*1·62*	*16*	*1·67*	*16*	*1·73*	*15*	*1·95*	*14*	*2·10*	*13*
Hull	53 45	0 16 W.	12	35	1·65	16	1·74	16	1·78	17	1·71	15	1·95	15	2·08	13
				40	*1·67*	*16*	*1·72*	*16*	*1·75*	*16*	*1·69*	*15*	*1·90*	*15*	*2·03*	*13*
Spurn Head	53 34	0 7 E.	26	35	1·20	15	1·26	13	1·33	15	1·19	14	1·51	13	1·50	12
Tealby	53 24	0 16 W.	251	35	1·63	—	1·84	—	1·86	—	1·89	—	2·04	—	2·17	—
Lincoln	53 14	0 33 W.	58	35	1·60	14	1·57	13	1·54	13	1·55	12	1·93	12	2·07	11
				40	*1·61*	*14*	*1·56*	*13*	*1·45*	*12*	*1·58*	*12*	*1·81*	*12*	*2·07*	*12*
Fulbeck	53 3	0 37 W.	180	35	1·64	15	1·59	13	1·66	16	1·66	13	2·04	14	1·94	12
Rauceby	53 0	0 29 W.	124	35	1·73	—	1·85	—	1·61	—	1·85	—	2·09	—	2·03	—

The averages for stations with less than 35 years' observations are obtained by comparison with a neighbouring station or stations. Thus Strathpeffer has been compared with Lairg, Scarborough; Tealby and

* *See* note on p. 258.

YEAR, at STATIONS in the BRITISH ISLES. [The AVERAGES refer to the period of 35 Years 1876 to 1910. For some places the AVERAGES for that period are added in italics.]

July.		August.		September.		October.		November.		December.		Annual.		STATIONS.
Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	
in.		in.		in.		in.		in.		in.		in.		
2·32	18	3·11	20	3·18	20	1·12	25	4·00	24	4·44	27	36·68	260	Sumburgh Head.
2·33	*17*	*3·19*	*19*	*3·19*	*20*	*4·23*	*24*	*4·04*	*24*	*4·43*	*26*	*37·10*	*252*	
2·72	15	2·88	17	3·10	18	4·03	21	3·96	20	4·18	22	36·06	218	Deerness.
2·66	18	2·75	20	2·52	19	3·09	21	3·02	20	3·08	21	29·86	231	Wick.
2·66	*18*	*2·77*	*20*	*2·55*	*19*	*3·14*	*21*	*3·04*	*20*	*2·98*	*22*	*29·61*	*227*	
2·93	20	3·86	22	3·96	21	5·36	24	5·61	24	5·94	26	48·62	260	Stornoway.
2·90	18	3·06	19	2·78	17	3·66	20	3·84	19	3·69	20	37·00	216	Lairg.
2·90	15	2·75	15	2·49	14	3·09	16	3·30	16	3·14	16	32·07	174	Dunrobin Castle.
2·87	*15*	*2·76*	*15*	*2·53*	*14*	*3·12*	*16*	*3·42*	*16*	*3·07*	*16*	*31·89*	*175*	
2·85	17	2·66	17	2·31	15	2·86	18	2·90	17	3·39	18	31·39	195	Strathpeffer Spa (1885).
5·46	22	7·18	24	7·82	20	8·89	23	9·00	22	10·22	24	88·16	259	*Glencarron (1885).*
2·95	18	3·57	20	3·60	17	4·19	21	4·20	20	5·57	22	44·39	224	*Fort Augustus (1884).*
5·22	20	6·19	22	6·82	20	7·53	21	7·74	21	9·54	23	78·11	239	Fort William.
3·17	17	3·36	18	2·50	16	3·37	18	2·90	17	2·72	17	30·33	194	Gordon Castle.
3·22	—	*3·39*	—	*2·75*	—	*3·37*	—	*3·02*	—	*2·64*	—	*30·64*	—	
2·67	17	2·59	19	2·11	17	2·50	19	2·24	18	2·03	19	24·86	208	Nairn.
2·75	*18*	*2·61*	*19*	*2·31*	*17*	*2·51*	*19*	*2·31*	*18*	*2·02*	*19*	*25·00*	*207*	
2·85	17	2·96	18	2·37	17	2·99	20	3·02	19	3·27	20	30·34	216	Aberdeen.
2·89	*17*	*3·07*	*18*	*2·56*	*17*	*3·03*	*20*	*3·17*	*19*	*3·13*	*20*	*30·74*	*214*	
3·11	18	3·50	20	2·36	17	3·30	20	3·03	19	2·74	19	31·88	214	Tillypronie.
3·15	*18*	*3·49*	*19*	*2·56*	*17*	*3·43*	*20*	*3·12*	*19*	*2·67*	*19*	*32·00*	*212*	
2·64	18	3·65	20	2·61	16	3·81	20	3·79	18	3·22	18	34·82	211	Braemar.
2·77	*18*	*3·66*	*20*	*2·89*	*16*	*3·94*	*20*	*3·83*	*19*	*3·26*	*18*	*35·63*	*207*	
3·24	15	3·69	17	2·37	13	2·94	17	2·83	15	3·10	17	31·18	172	Balruddery (1901).
2·88	15	3·52	16	2·27	14	2·69	16	2·56	16	2·70	17	28·57	179	Dundee.
2·90	*15*	*3·44*	*16*	*2·37*	*14*	*2·79*	*16*	*2·66*	*15*	*2·64*	*16*	*28·92*	*176*	
3·02	16	4·31	17	3·03	15	4·06	17	4·25	18	4·24	18	41·14	193	Ochtertyre.
4·49	—	6·17	—	5·69	—	7·14	—	7·80	—	8·77	—	73·40	—	Stronvar.
2·73	17	2·95	17	1·84	14	2·40	17	1·98	15	1·99	16	23·86	184	Leith.
2·77	*16*	*2·94*	*17*	*1·98*	*14*	*2·44*	*17*	*2·14*	*16*	*1·96*	*16*	*24·19*	*183*	
2·79	—	2·87	—	1·90	—	2·59	—	2·23	—	2·11	—	24·78	—	Blackford Hill (1896).
3·35	16	3·62	17	2·58	17	3·80	20	3·15	18	2·82	18	33·58	198	Marchmont.
3·36	*16*	*3·59*	*17*	*2·80*	*17*	*3·83*	*20*	*3·34*	*19*	*2·89*	*18*	*34·25*	*202*	
2·73	15	3·29	17	2·35	15	3·63	18	3·34	18	3·09	17	31·69	191	Alnwick Castle.
2·66	15	3·14	17	2·23	15	3·35	18	2·87	19	2·81	19	30·15	200	Cockle Park (1885).
2·50	15	2·84	16	1·75	14	2·97	18	2·24	17	2·21	16	24·53	181	Shields.
2·57	*15*	*2·81*	*16*	*1·91*	*14*	*2·98*	*17*	*2·37*	*17*	*2·24*	*16*	*24·97*	*182*	
2·81	16	3·01	17	1·89	15	2·94	19	2·42	18	2·39	18	26·63	198	Newcastle-on-Tyne (1876–1890; 1901–1910).
2·77	15	2·73	16	1·85	15	3·01	18	2·44	17	2·39	17	26·15	186	Seaham.
2·85	*16*	*2·68*	*16*	*2·00*	*15*	*3·02*	*18*	*2·58*	*17*	*2·41*	*16*	*26·44*	*186*	
2·79	15	2·73	17	1·86	14	3·21	19	2·51	17	2·15	16	25·96	189	Durham.
2·84	*15*	*2·69*	*16*	*2·00*	*14*	*3·29*	*19*	*2·68*	*17*	*2·29*	*16*	*26·77*	*188*	
2·26	—	2·52	—	1·78	—	2·93	—	2·46	—	2·32	—	24·93	—	Whitby.
2·38	—	*2·44*	—	*1·94*	—	*2·92*	—	*2·59*	—	*2·33*	—	*25·26*	—	
2·88	16	2·89	17	2·10	16	3·03	18	2·33	18	2·11	17	26·32	196	Rounton (1886).
2·34	14	2·91	17	1·96	14	3·23	19	2·59	18	2·42	18	26·61	191	Scarborough.
2·47	*14*	*2·79*	*16*	*2·17*	*14*	*3·16*	*18*	*2·80*	*18*	*2·44*	*18*	*26·87*	*188*	
2·57	14	2·67	16	1·89	14	2·73	18	2·14	17	2·15	18	24·85	188	York.
2·61	*14*	*2·59*	*16*	*2·06*	*14*	*2·76*	*18*	*2·23*	*18*	*2·10*	*17*	*25·10*	*187*	
2·34	13	2·97	16	1·93	13	3·08	18	2·19	17	2·30	17	25·72	186	Hull.
2·48	*14*	*2·87*	*15*	*2·05*	*13*	*3·01*	*18*	*2·32*	*17*	*2·23*	*17*	*25·72*	*185*	
1·82	13	2·13	15	1·61	12	2·40	17	1·80	15	1·84	15	19·59	169	Spurn Head (1880).
2·68	—	3·31	—	2·39	—	3·22	—	2·34	—	2·26	—	27·63	—	Tealby (1892).
2·31	12	2·68	14	1·78	11	2·60	16	1·92	14	2·05	15	23·60	157	Lincoln.
2·37	*12*	*2·59*	*14*	*1·88*	*11*	*2·57*	*15*	*1·99*	*15*	*1·96*	*14*	*23·44*	*156*	
2·37	13	2·75	15	2·01	12	2·44	16	1·97	17	2·12	17	24·19	173	Fulbeck (1891).
2·48	—	2·73	—	2·08	—	2·79	—	2·13	—	2·29	—	25·66	—	Rauceby.

Balruddery with Dundee; Blackford Hill with Leith; Cockle Park with Alawick Castle; Newcastle with Shields; Rounton with York; Spurn Head amounts with Hull, days with Fulbeck with Lincoln.

TABLE II. (*continued*).—SHOWING the AVERAGES of RAINFALL and NUMBER of RAIN-DAYS for EACH MONTH and for the places where records have been maintained for the 40 Years 1871–1910,

DISTRICT AND STATION.	Lat. N.	Long.	Height of Station (H) above M.S.L.	No. of Years ending 1910.	January.		February.		March.		April.		May.		June.	
					Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total	Days.
			Feet.		in.		in.		in.		in.		in.		in.	
3. ENGLAND, E.																
Hillington	52 48	0 33 E.	88	35	1·97	18	1·80	16	1·84	17	1·83	15	2·04	14	2·29	14
				40	*1·95*	*18*	*1·78*	*16*	*1·77*	*16*	*1·80*	*14*	*2·00*	*14*	*2·28*	*14*
Norwich	52 37	1 17 E.	93	35	1·84	—	1·74	—	1·81	—	1·87	—	2·03	—	2·05	—
Yarmouth	52 37	1 43 E.	17	35	1·59	17	1·58	16	1·66	16	1·61	15	1·80	14	1·78	12
				40	*1·64*	*17*	*1·57*	*15*	*1·65*	*16*	*1·65*	*15*	*1·83*	*14*	*1·89*	*12*
Lowestoft	52 29	1 45 E.	83	35	1·54	16	1·47	15	1·51	15	1·57	14	1·67	12	1·77	11
				40	*1·54*	—	*1·43*	—	*1·48*	—	*1·58*	—	*1·66*	—	*1·80*	—
Geldeston	52 28	1 31 E.	37	35	1·53	17	1·44	16	1·59	17	1·57	15	1·85	14	1·81	12
				40	*1·54*	*17*	*1·41*	*16*	*1·56*	*16*	*1·58*	*15*	*1·82*	*13*	*1·87*	*12*
Cambridge	52 12	0 8 E.	41	35	1·42	15	1·40	13	1·42	14	1·55	14	1·85	14	2·21	12
				40	*1·44*	*15*	*1·36*	*13*	*1·37*	*14*	*1·55*	*14*	*1·83*	*14*	*2·36*	*13*
Woburn	52 1	0 36 W.	291	35	1·67	16	1·54	13	1·64	14	1·81	14	2·26	14	2·10	13
Felixstowe	51 58	1 22 E.	10	35	1·52	16	1·44	14	1·44	15	1·47	13	1·43	13	2·25	11
Bennington	51 54	0 5 W.	406	35	1·78	17	1·71	16	1·68	16	1·80	14	2·01	15	2·10	12
Dunmow	51 53	0 23 E.	297	35	1·60	—	1·59	—	1·72	—	1·65	—	1·73	—	2·20	—
Rothamsted	51 48	0 22 W.	424	35	2·02	18	1·93	16	1·89	16	1·86	15	1·99	15	2·27	13
				40	*2·17*	—	*1·87*	—	*1·83*	—	*1·85*	—	*1·97*	—	*2·34*	—
Clacton-on-Sea ..	51 47	1 9 E.	54	35	1·26	15	1·35	12	1·32	13	1·50	12	1·38	10	1·62	11
Berkhamsted	51 46	0 34 W.	400	35	2·18	17	2·05	15	1·97	15	1·90	13	1·99	14	2·29	13
				40	*2·32*	—	*2·01*	—	*1·93*	—	*1·90*	—	*2·01*	—	*2·36*	—
Shoeburyness	51 32	0 47 E.	13	35	1·30	14	1·25	12	1·20	12	1·23	11	1·34	11	1·77	10
				40	*1·37*	*14*	*1·21*	*12*	*1·18*	*12*	*1·28*	*11*	*1·34*	*10*	*1·81*	*10*
Southend-on-Sea ..	51 32	0 43 E.	90	35	1·46	—	1·39	—	1·46	—	1·34	—	1·54	—	1·92	—
4. MIDLAND COS.																
Harrogate	54 0	1 33 W.	479	35	2·21	18	2·06	16	2·21	17	1·96	16	2·17	14	2·49	12
Wakefield	53 41	1 30 W.	96	35	1·83	14	1·76	14	1·88	14	1·89	14	2·04	13	2·23	12
Bawtry	53 27	1 4 W.	65	35	1·57	14	1·55	14	1·56	13	1·57	13	1·98	14	1·96	12
Sheffield	53 23	1 29 W.	429	35	2·72	16	2·47	15	2·49	16	2·18	15	2·43	14	2·45	13
Worksop (Hodsock) ..	53 22	1 5 W.	56	35	1·68	—	1·64	—	1·69	—	1·65	—	2·11	—	2·05	—
Buxton	53 16	1 55 W.	987	35	4·43	19	4·06	18	4·01	18	2·96	16	3·30	16	3·33	14
				40	*4·50*	—	*4·00*	—	*3·90*	—	*2·92*	—	*3·31*	—	*3·42*	—
Strelley	52 58	1 15 W.	377	35	2·07	—	1·80	—	1·80	—	1·84	—	2·10	—	2·40	—
Cheadle	52 58	1 57 W.	646	35	2·50	18	2·19	16	2·23	16	2·14	15	2·32	14	2·75	14
Nottingham	52 56	1 9 W.	82	35	1·77	19	1·61	17	1·59	18	1·63	16	1·95	16	2·11	14
				40	*1·81*	*19*	*1·59*	*16*	*1·56*	*18*	*1·64*	*16*	*1·93*	*15*	*2·14*	*14*
Belvoir Castle	52 54	0 47 W.	259	35	1·69	18	1·72	17	1·66	19	1·79	17	2·09	16	1·98	13
				40	*1·72*	—	*1·76*	—	*1·61*	—	*1·81*	—	*2·01*	—	*1·99*	—
Colly Weston	52 37	0 31 W.	281	35	1·62	20	1·67	15	1·55	17	1·57	16	2·12	16	1·95	12
Birmingham	52 28	1 56 W.	535	35	1·92	15	1·72	14	1·75	14	1·87	15	2·27	12	2·37	14
				40	*2·00*	—	*1·74*	—	*1·71*	—	*1·88*	—	*2·27*	—	*2·50*	—
Stokesay	52 26	2 52 W.	370	35	2·24	15	2·09	14	1·94	15	1·98	14	2·41	14	2·43	13
Coventry	52 25	1 30 W.	270	35	1·92	16	1·77	15	1·63	17	1·71	15	2·04	15	2·14	13
Hereford	52 5	2 45 W.	291	35	2·08	16	1·93	14	1·66	15	1·82	15	2·11	13	2·17	13
Cheltenham	51 54	2 3 W.	213	35	2·00	17	2·01	16	1·77	14	1·90	14	1·98	13	2·23	13
Oxford	51 46	1 16 W.	208	35	1·79	15	1·69	14	1·52	14	1·73	14	1·85	13	2·33	12
				40	*1·90*	*16*	*1·66*	*14*	*1·50*	*13*	*1·71*	*14*	*1·83*	*13*	*2·35*	*12*
Cirencester	51 43	1 57 W.	446	35	2·28	16	2·18	14	2·01	14	1·98	14	2·05	13	2·41	13
Bath	51 23	2 21 W.	66	35	2·33	16	2·12	14	2·05	14	2·17	13	2·03	13	2·42	11

The averages for stations with less than 35 years' observations are obtained by comparison with a neighbouring station or stations. Thus Bennington, Dunmow and Woburn have been

WHOLE YEAR, at STATIONS in the BRITISH ISLES. [The AVERAGES refer to the period of 35 Years 1876 to 1910. For some the AVERAGES for that period are added in italics.]

July.		August.		September.		October.		November.		December.		Annual.		STATIONS.
Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	
in.		in.		in.		in.		in.		in.		in.		
2·88	15	2·90	15	2·38	14	3·00	19	2·64	19	2·48	21	28·05	197	Hillington.
2·94	*15*	*2·87*	*14*	*2·41*	*14*	*2·91*	*19*	*2·68*	*18*	*2·41*	*20*	*27·80*	*192*	
2·66	—	2·46	—	2·37	—	3·09	—	2·70	—	2·44	—	27·06	—	Norwich.
2·44	14	2·51	15	2·13	14	2·88	18	2·53	18	2·25	18	24·76	187	Gt. Yarmouth.
2·56	*14*	*2·39*	*14*	*2·29*	*14*	*2·87*	*18*	*2·69*	*18*	*2·25*	*17*	*25·28*	*184*	
2·33	13	2·31	14	2·13	13	2·72	17	2·47	16	2·18	16	23·67	172	Lowestoft.
2·37	—	*2·19*	—	*2·19*	—	*2·67*	—	*2·55*	—	*2·13*	—	*23·59*	—	
2·37	13	2·26	14	2·12	14	2·77	18	2·44	19	2·14	18	23·89	187	Geldeston.
2·43	*13*	*2·14*	*14*	*2·20*	*14*	*2·73*	*18*	*2·53*	*19*	*2·10*	*18*	*23·91*	*185*	
2·30	13	2·41	14	1·79	12	2·37	16	1·99	15	1·78	16	22·49	168	Cambridge.
2·39	*14*	*2·29*	*14*	*1·89*	*12*	*2·37*	*15*	*2·03*	*14*	*1·73*	*16*	*22·50*	*168*	
2·59	13	2·51	16	2·25	14	2·74	17	2·35	15	2·23	16	25·69	175	Woburn (1899).
2·85	12	1·72	13	2·08	11	2·65	15	2·37	16	1·88	16	23·10	165	Felixstowe 1899).
2·62	14	2·63	16	2·03	14	2·69	19	2·50	19	2·28	19	25·83	191	Bennington (1886).
2·32	—	2·26	—	2·01	—	2·50	—	2·29	—	2·13	—	24·00	—	Dunmow.
2·38	14	2·66	16	2·15	15	3·09	19	2·71	19	2·56	20	27·51	196	Rothamsted.
2·53	—	*2·54*	—	*2·24*	—	*3·16*	—	*2·71*	—	*2·47*	—	*27·68*	—	
1·80	10	1·90	13	1·65	10	2·00	14	1·89	15	1·64	14	19·31	149	Clacton (1901).
2·35	14	2·65	15	2·10	13	3·19	16	2·85	15	2·73	18	28·25	178	Berkhamsted.
2·44	—	*2·53*	—	*2·24*	—	*3·26*	—	*2·84*	—	*2·66*	—	*28·50*	—	
1·68	10	1·77	11	1·67	10	2·27	15	2·05	14	1·74	14	19·27	144	Shoeburyness.
1·80	*10*	*1·72*	*11*	*1·77*	*11*	*2·31*	*15*	*2·13*	*14*	*1·73*	*13*	*19·65*	*143*	
1·94	—	1·94	—	1·73	—	2·51	—	2·24	—	1·87	—	21·34	—	Southend-on-Sea (1881).
2·70	15	2·95	17	2·14	15	3·46	19	2·66	19	2·66	19	29·58	197	Harrogate.
2·64	13	2·67	15	1·81	12	2 98	16	2·12	16	2·35	15	26·20	168	Wakefield.
2·35	13	2·50	15	1·73	12	2·57	16	1·92	15	2·10	15	23·36	166	Bawtry.
2·55	14	2·93	15	2·21	13	3·50	18	2·90	16	3·29	17	32·12	182	Sheffield.
2·29	—	2·56	—	1·77	—	2·68	—	1·96	—	2·24	—	24·32	—	Worksop.
4·05	16	4·53	18	3·65	16	5·11	20	4·77	19	5·48	20	49·66	210	Buxton.
4·14	—	*4·56*	—	*3·89*	—	*5·28*	—	*4·86*	—	*5·24*	—	*50·02*	—	
2·50	—	2·90	—	2·05	—	2·91	—	2·29	—	2·59	—	27·25	—	Strelley (1881).
2·94	15	3·71	17	2·59	14	3·20	18	2·90	17	3·16	19	32·63	193	Cheadle.
2·39	15	2·62	17	1·92	15	2·57	20	1·89	19	2·27	20	24·32	206	Nottingham.
2·57	*15*	*2·60*	*17*	*2·03*	*16*	*2·59*	*20*	*1·96*	*19*	*2·18*	*20*	*24·60*	*205*	
2·45	14	2·68	16	2·14	16	2·75	22	2·22	21	2·34	21	25·51	210	Belvoir Castle.
2·55	—	*2·58*	—	*2·21*	—	*2·74*	—	*2·29*	—	*2·22*	—	*25·43*	—	
2·45	13	2·52	16	2·15	14	2·72	20	2·29	17	2·25	19	24·86	195	Colly Weston (1880).
2·33	14	2·96	16	2·11	12	2·83	16	2·34	14	2·48	17	26·95	173	Birmingham.
2·54	—	*2·87*	—	*2·27*	—	*2·93*	—	*2·36*	—	*2·39*	—	*27·46*	—	
2·41	14	3·07	15	2·15	13	3·23	17	2·88	17	2·95	17	29·78	178	Stokesay.
2·37	13	2·64	16	2·11	14	2·70	19	2·24	18	2·28	19	25·55	190	Coventry.
2·16	13	2·61	15	2·03	12	2·90	18	2·40	16	2·56	18	26·43	178	Hereford.
2·40	14	2·75	15	2·15	13	2·81	18	2·51	16	2·51	17	27·02	180	Cheltenham.
2·47	14	2·47	14	1·93	12	2·78	16	2·31	15	2·25	16	25·12	169	Oxford.
2·51	*14*	*2·35*	*14*	*2·01*	*12*	*2·87*	*16*	*2·32*	*15*	*2·17*	*16*	*25·18*	*169*	
2·65	14	3·17	15	2·36	13	3·16	17	2·86	15	2·86	16	29·97	174	Cirencester.
2·53	13	3·00	14	2·32	12	3·18	15	2·89	13	3·13	15	30·17	163	Bath.

compared with Rothamsted; Felixstowe with Yarmouth; Clacton and Southend with Shoeburyness; Strelley with Nottingham; Colly Weston with Belvoir Castle and Leicester.

TABLE II. (*continued*).—SHOWING the AVERAGES of RAINFALL and NUMBER OF RAIN-DAYS for EACH MONTH and for the places where records have been maintained for the 40 Years 1871–1910.

DISTRICT AND STATION.	Lat. N.	Long.	Height of Station (H) above M.S.L.	No. of Years ending 1910.	January.		February.		March.		April.		May.		June.	
					Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.
	° ′	° ′	Feet.		in.		in.		in.		in.		in.		in.	
LONDON.																
Barnet	51 39	0 10 W.	211	35	1·89	13	1·81	13	1·82	13	1·73	13	1·81	12	2·31	11
Camden Square ..	51 33	0 8 W.	110	35	1·78	15	1·72	14	1·71	13	1·76	13	1·77	13	2·27	12
				40	*1·87*	*15*	*1·66*	*14*	*1·65*	*14*	*1·73*	*13*	*1·75*	*13*	*2·31*	*12*
Greenwich	51 28	0 0	155	35	1·64	14	1·60	14	1·60	14	1·68	13	1·77	13	2·19	12
				40	*1·74*	*15*	*1·53*	*14*	*1·54*	*14*	*1·66*	*13*	*1·73*	*12*	*2·21*	*12*
Kew*	51 28	0 19 W.	18	35	1·69	15	1·59	14	1·62	13	1·65	13	1·74	13	2·22	13
				40	*1·77*	*15*	*1·53*	*13*	*1·54*	*13*	*1·64*	*13*	*1·70*	*13*	*2·25*	*13*
Brixton	51 27	0 8 W.	77	35	1·70	15	1·62	14	1·61	13	1·70	13	1·67	13	2·19	12
				40	*1·80*	*15*	*1·57*	*14*	*1·55*	*13*	*1·68*	*13*	*1·68*	*13*	*2·27*	*12*
Norwood	51 26	0 6 W.	220	35	1·72	16	1·69	15	1·65	14	1·72	14	1·75	13	2·29	13
5. ENGLAND, S.E.																
Maidenhead	51 30	0 43 W.	101	35	1·82	15	1·83	15	1·72	14	1·79	15	1·78	14	2·44	12
Reading	51 26	0 57 W.	264	35	1·89	—	1·67	—	1·63	—	1·64	—	1·69	—	2·13	—
Marlborough	51 25	1 44 W.	424	35	2·46	17	2·36	16	2·30	16	2·17	15	2·61	14	2·51	14
				40	*2·70*	*18*	*2·32*	*16*	*2·23*	*15*	*2·16*	*14*	*1·98*	*14*	*2·50*	*14*
Margate	51 24	1 24 E.	53	35	1·65	15	1·48	15	1·51	15	1·49	13	1·66	12	1·90	11
Tunbridge Wells ..	51 8	0 16 E.	421	35	2·47	16	2·25	15	2·20	14	1·94	13	1·87	12	2·18	12
Swarraton	51 8	1 11 W.	310	35	2·54	16	2·35	14	2·21	14	2·00	13	2·05	13	2·27	12
Folkestone	51 5	1 11 E.	121	35	2·06	14	1·85	14	1·78	13	1·67	13	1·64	11	1·82	9
Salisbury (Wilton) ..	51 4	1 51 W.	180	35	2·78	18	2·60	16	2·24	16	2·31	14	2·11	13	2·32	13
				40	*3·04*	*19*	*2·57*	*16*	*2·21*	*15*	*2·31*	*14*	*2·03*	*13*	*2·33*	*13*
Dungeness	50 55	0 58 E.	21	35	1·84	16	1·47	15	1·60	15	1·43	13	1·35	12	1·62	12
Southampton	50 55	1 24 W.	65	35	2·62	16	2·26	15	2·09	14	2·02	14	1·98	13	2·11	12
				40	*2·84*	*16*	*2·27*	*15*	*2·06*	*14*	*2·04*	*14*	*1·92*	*13*	*2·15*	*12*
St. Leonards	50 51	0 33 E.	178	35	2·31	18	2·09	17	2·01	16	1·83	14	1·69	13	1·89	12
				40	*2·43*	—	*2·00*	—	*1·94*	—	*1·84*	—	*1·62*	—	*1·89*	—
Brighton	50 49	0 8 W.	31	35	2·31	15	1·96	14	1·84	14	1·72	13	1·68	11	1·90	11
				40	*2·44*	*16*	*1·96*	*14*	*1·73*	*14*	*1·71*	*13*	*1·60*	*11*	*1·99*	*11*
Worthing	50 49	0 22 W.	35	35	2·30	15	1·99	14	1·74	13	1·67	12	1·63	11	1·85	11
				40	*2·44*	—	*1·98*	—	*1·68*	—	*1·66*	—	*1·57*	—	*1·90*	—
Portsmouth	50 48	1 6 W.	11	35	2·35	15	2·03	14	1·83	14	1·65	13	1·63	12	1·88	11
				40	*2·50*	—	*2·00*	—	*1·75*	—	*1·68*	—	*1·57*	—	*1·92*	—
Bognor	50 47	0 40 W.	20	35	2·20	16	1·99	14	1·74	13	1·59	12	1·52	11	1·77	10
Eastbourne	50 46	0 17 E.	39	35	2·58	16	2·28	15	2·12	15	1·96	13	1·69	12	1·93	11
Totland Bay	50 41	1 33 W.	140	35	2·32	—	2·01	—	1·92	—	1·77	—	1·71	—	1·94	—
Ventnor	50 36	1 13 W.	50	35	2·53	15	2·14	14	1·96	14	1·87	13	1·69	12	1·86	11
6. SCOTLAND, W., AND ISLE OF MAN.																
Laudale	56 41	5 41 W.	14	35	8·62	23	6·95	20	6·46	21	4·29	17	3·98	18	3·79	16
Poltalloch	56 8	5 30 W.	132	35	4·85	20	3·91	17	3·73	18	2·62	15	2·76	15	3·14	14
Glasgow	55 53	4 18 W.	180	35	3·40	19	2·79	16	2·66	17	2·15	15	2·54	15	2·67	14
				40	*3·65*	*19*	*2·76*	*16*	*2·68*	*17*	*2·11*	*14*	*2·53*	*15*	*2·80*	*15*
Rothesay	55 50	5 4 W.	90	35	4·39	21	3·80	19	3·50	19	2·89	17	2·98	17	3·26	15
				40	*4·65*	—	*3·76*	—	*3·47*	—	*2·75*	—	*2·89*	—	*3·25*	—
Colmonell	55 8	4 53 W.	170	35	4·46	—	3·76	—	3·30	—	2·51	—	2·55	—	2·65	—
Dumfries	55 4	3 36 W.	160	35	3·05	18	2·98	16	2·75	15	2·26	14	2·58	14	2·47	13
Cargen	55 2	3 37 W.	85	35	3·96	—	3·59	—	3·41	—	2·59	—	2·92	—	2·81	—
Cally	54 52	4 12 W.	120	35	4·37	18	3·96	16	3·64	16	2·95	14	3·21	14	3·10	13
				40	*4·52*	*18*	*3·99*	*15*	*3·57*	*16*	*2·83*	*14*	*3·08*	*14*	*3·17*	*13*
Douglas	54 10	4 28 W.	277	35	3·55	20	3·20	18	2·89	17	2·54	16	2·49	15	2·55	14
				40	*3·90*	—	*3·18*	—	*2·81*	—	*2·46*	—	*2·38*	—	*2·52*	—

The averages for stations with less than 35 years' observations are obtained by comparison with a neighbouring station or stations. Thus Reading has been compared

* *See* note on p. 258.

WHOLE YEAR, at STATIONS in the BRITISH ISLES. [The AVERAGES refer to the period of 35 years 1876 to 1910. For some the AVERAGES for that period are added in italics.]

July.		August.		September.		October.		November.		December.		Annual.		STATIONS.
Total.	Days.	Total.	Days	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	
in.		in.		in.		in.		in.		in.		in.		
2·42	12	2·49	13	2·05	11	2·75	15	2·43	14	2·41	15	25·92	155	Barnet.
2·51	13	2·38	14	1·94	12	2·64	15	2·34	14	2·20	16	25·02	164	Camden Square.
2·54	*13*	*2·31*	*14*	*2·07*	*12*	*2·74*	*16*	*2·35*	*15*	*2·14*	*15*	*25·12*	*166*	
2·31	13	2·33	13	1·89	12	2·60	15	2·28	15	2·07	16	23·96	164	Greenwich.
2·41	*13*	*2·30*	*13*	*1·98*	*12*	*2·67*	*15*	*2·26*	*15*	*2·02*	*15*	*24·05*	*163*	
2·35	13	2·33	14	1·98	13	2·69	17	2·20	16	2·09	16	24·15	170	Kew.
2·40	*13*	*2·20*	*14*	*2·04*	*13*	*2·76*	*17*	*2·19*	*15*	*2·02*	*16*	*24·04*	*168*	
2·30	13	2·43	13	1·85	12	2·65	16	2·33	15	2·10	16	24·15	165	Brixton.
2·37	*13*	*2·33*	*13*	*1·97*	*13*	*2·74*	*16*	*2·33*	*15*	*2·03*	*15*	*24·32*	*165*	
2·37	13	2·41	14	1·92	13	2·68	17	2·39	16	2·10	17	24·69	175	Norwood.
2·39	13	2·47	15	2·01	12	3·00	18	2·40	15	2·40	16	26·05	174	Maidenhead.
2·10	—	2·35	—	1·76	—	2·94	—	2·44	—	2·29	—	24·53	—	Reading (1876-1890; 1903-1910)
2·56	15	2·94	15	2·40	13	3·43	18	3·17	17	3·15	18	31·46	188	Marlborough.
2·64	*15*	*2·84*	*15*	*2·56*	*14*	*3·58*	*18*	*3·20*	*17*	*3·08*	*18*	*31·79*	*185*	
2·01	12	2·11	13	1·98	12	2·88	17	2·50	17	2·25	16	23·42	168	Margate.
2·27	13	2·44	14	2·33	12	3·65	17	3·35	17	3·04	17	29·99	172	Tunbridge Wells.
2·36	13	3·02	15	2·38	13	3·74	17	3·09	16	3·20	17	31·21	173	Swarraton (1880)
2·02	11	2·36	13	2·05	12	3·41	16	2·99	16	2·75	15	26·40	157	Folkestone (1876-1880; 1894-1910).
2·39	14	2·72	16	2·25	14	3·77	19	3·35	18	3·60	20	32·44	191	Salisbury.
2·45	*14*	*2·68*	*15*	*2·34*	*14*	*3·85*	*19*	*3·36*	*17*	*3·51*	*19*	*32·68*	*188*	
1·75	12	2·11	13	2·22	14	3·46	17	2·78	17	2·48	17	24·11	173	Dungeness (1885).
2·37	13	2·84	14	2·36	13	3·82	17	3·11	16	3·20	18	30·78	175	Southampton.
2·48	*13*	*2·72*	*14*	*2·41*	*13*	*3·89*	*17*	*3·12*	*16*	*3·17*	*17*	*31·07*	*174*	
2·26	12	2·15	14	2·45	13	3·72	17	3·25	18	2·94	18	28·99	182	St. Leonards.
2·19	—	*2·44*	—	*2·52*	—	*3·75*	—	*3·29*	—	*2·88*	—	*28·79*	—	
2·04	12	2·40	13	2·18	12	3·61	16	3·09	16	2·73	16	27·46	163	Brighton.
2·07	*12*	*2·33*	*13*	*2·24*	*12*	*3·62*	*16*	*3·13*	*16*	*2·65*	*16*	*27·47*	*164*	
2·05	11	2·35	13	2·29	12	3·50	16	3·16	15	2·62	17	27·15	160	Worthing
2·05	—	*2·27*	—	*2·30*	—	*3·56*	—	*3·15*	—	*2·51*	—	*27·07*	—	
2·08	12	2·31	14	2·33	12	3·54	16	3·05	15	2·71	17	27·39	165	Portsmouth.
2·15	—	*2·22*	—	*2·38*	—	*3·64*	—	*3·09*	—	*2·67*	—	*27·57*	—	
1·86	12	2·22	13	2·24	14	3·39	18	2·86	17	2·51	18	25·89	168	Bognor (1898).
2·28	11	2·58	13	2·64	13	4·05	18	3·55	17	3·26	18	30·92	172	Eastbourne.
1·96	—	2·34	—	2·29	—	3·89	—	3·07	—	2·83	—	28·05	—	Totland Bay.
2·16	11	2·26	13	2·66	13	3·91	16	3·37	16	2·99	17	29·42	165	Ventnor.
5·17	22	6·14	22	6·89	20	7·46	21	7·91	21	9·29	23	76·95	244	Laudale.
4·24	18	5·01	20	4·76	18	5·13	19	5·27	19	5·78	21	51·20	214	Poltalloch.
3·16	17	4·12	18	3·14	16	3·58	17	3·55	18	3·96	20	37·72	202	Glasgow.
3·32	*17*	*4·14*	*18*	*3·41*	*17*	*3·81*	*18*	*3·61*	*18*	*4·00*	*19*	*38·82*	*203*	
3·99	19	4·99	20	4·25	18	4·60	19	4·85	20	5·21	22	48·71	226	Rothesay.
4·04	—	*4·97*	—	*4·41*	—	*4·82*	—	*4·92*	—	*5·07*	—	*49·00*	—	
3·34	—	4·15	—	3·82	—	4·79	—	5·00	—	5·24	—	45·57	—	Colmonell.
3·21	16	3·91	17	2·82	15	3·81	17	3·47	16	3·85	18	37·16	189	Dumfries.
3·27	—	4·42	—	3·21	—	4·37	—	4·40	—	4·92	—	43·87	—	Cargen.
3·67	15	4·77	17	4·08	15	4·84	16	5·11	17	5·34	18	49·04	189	Cally.
3·70	*15*	*4·80*	*17*	*4·21*	*15*	*4·96*	*16*	*5·13*	*17*	*5·24*	*18*	*49·20*	*188*	
3·19	15	4·12	17	3·56	15	4·74	19	4·68	18	4·81	20	42·32	204	Douglas.
3·19	—	*4·12*	—	*3·51*	—	*4·78*	—	*4·77*	—	*4·70*	—	*42·32*	—	

with Oxford; Swarraton with Southampton; Folkestone and Dungeness with Margate; Bognor with Worthing; Aspatria and Newton Rigg with Carlisle.

TABLE II. (*continued*).—SHOWING the AVERAGES of RAINFALL and NUMBER of RAIN-DAYS for EACH MONTH and for the places where records have been maintained for the 40 Years 1871 to 1910,

DISTRICT AND STATION.	Lat. N.	Long.	Height of Station (H) above M.S.L.	No. of Years ending 1910.	January.		February.		March.		April.		May.		June.	
					Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.
	° ′	° ′	Feet.		in.		in.		in.		in.		in.		in.	
7. ENGLAND, N.W., AND NORTH WALES.																
Carlisle	54 53	2 57 W.	111	35	2·41	17	2·09	14	2·17	15	1·92	15	2·23	14	2·38	13
				40	—	*17*	—	*14*	—	*15*	—	*14*	—	*14*	—	*13*
Aspatria	54 46	3 21 W.	250	35	2·99	—	2·47	—	2·90	—	2·14	—	2·44	—	2·48	—
Newton Rigg	54 40	2 49 W.	559	35	3·18	19	3·02	16	2·55	17	2·10	17	2·41	16	2·08	14
Stonyhurst	53 51	2 28 W.	375	35	4·14	19	3·41	18	3·50	17	2·59	16	2·83	15	3·21	14
				40	*4·22*	*20*	*3·31*	*17*	*3·51*	*17*	*2·56*	*16*	*2·79*	*15*	*3·28*	*14*
Blackpool	53 49	3 3 W.	66	35	2·66	18	2·27	17	2·26	15	1·89	14	2·21	14	2·25	14
Southport	53 39	2 59 W.	37	35	2·52	17	2·14	16	2·13	15	1·86	14	2·14	14	2·26	12
				40	*2·63*	*17*	*2·08*	*16*	*2·14*	*15*	*1·81*	*14*	*2·11*	*14*	*2·28*	*13*
Prestwich	53 32	2 17 W.	320	35	3·08	18	2·40	16	2·58	17	2·16	15	2·54	16	2·78	14
Manchester (City) ..	53 29	2 13 W.	190	35	2·81	17	2·29	15	2·45	15	1·95	14	2·44	16	2·74	14
Liverpool (Bidston)	53 24	3 4 W.	188	35	2·09	17	1·76	16	1·83	16	1·69	14	1·99	15	2·25	14
				40	*2·14*	*17*	*1·72*	*16*	*1·79*	*15*	*1·62*	*14*	*1·92*	*15*	*2·23*	*14*
Hoylake	53 23	3 12 W.	30	35	2·25	16	1·79	15	1·77	16	1·67	13	1·94	14	2·06	13
Llandudno	53 20	3 50 W.	71	35	2·53	17	2·15	16	2·13	16	1·86	14	1·88	13	1·99	13
				40	*2·64*	*17*	*2·13*	*16*	*2·06*	*15*	*1·83*	*14*	*1·86*	*13*	*2·00*	*13*
Rhyl	53 19	3 29 W.	30	35	1·72	—	1·49	—	1·72	—	1·50	—	1·67	—	1·87	—
Holyhead	53 18	4 39 W.	48	35	2·90	19	2·44	17	2·51	17	2·14	15	1·97	14	2·25	14
				40	*3·09*	*19*	*2·40*	*16*	*2·46*	*17*	*2·08*	*14*	*1·88*	*14*	*2·23*	*14*
St. Asaph	53 15	3 23 W.	479	35	1·88	16	1·65	14	1·86	15	1·75	14	2·03	14	2·31	13
Hawarden Bridge ..	53 12	3 1 W.	22	35	1·69	15	1·48	13	1·57	15	1·34	12	1·78	14	1·92	13
8. SOUTH WALES AND ENGLAND, S.W.																
Llangammarch Wells	52 7	3 32 W.	550	15	4·65	20	3·76	18	4·57	20	3·29	18	2·54	16	2·97	15
Pembroke (St Ann's Head).	51 41	5 11 W.	149	35	3·20	19	2·57	17	2·36	17	2·11	15	1·94	14	2·04	13
				40	*3·47*	*20*	*2·60*	*17*	*2·36*	*17*	*2·08*	*15*	*1·89*	*14*	*2·04*	*13*
Cardiff	51 28	3 10 W.	202	35	3·58	18	3·12	17	2·87	16	2·52	15	2·52	14	2·54	14
				40	*3·84*	—	*3·10*	—	*2·87*	—	*2·50*	—	*2·48*	—	*2·62*	—
Clifton	51 27	2 37 W.	229	35	2·79	16	2·45	14	2·36	14	2·32	14	2·15	14	2·51	11
				40	*2·99*	—	*2·45*	—	*2·34*	—	*2·31*	—	*2·13*	—	*2·46*	—
Woolacombe	51 10	4 12 W.	59	35	2·37	17	2·30	15	1·93	15	1·91	13	1·66	12	1·81	13
Arlington	51 8	3 58 W.	613	35	4·66	19	4·00	18	3·71	18	3·06	15	2·92	15	3·19	14
Barnstaple	51 5	4 3 W.	24	35	3·20	18	2·87	16	2·48	15	2·21	14	2·17	13	2·14	13
				40	*3·44*	*18*	*2·87*	*16*	*2·48*	*15*	*2·22*	*14*	*2·11*	*13*	*2·24*	*13*
Shaftesbury	51 1	2 12 W.	722	35	2·60	17	2·41	15	2·21	14	2·42	15	2·17	13	2·38	12
				40	*2·76*	—	*2·39*	—	*2·17*	—	*2·42*	—	*2·12*	—	*2·40*	—
Cullompton	50 51	3 23 W.	202	35	3·10	19	2·79	16	2·49	15	2·49	15	2·16	13	2·29	13
Rousdon	50 43	3 0 W.	515	25	2·79	16	2·04	13	2·45	15	2·18	15	2·03	13	1·89	12
Portland Bill	50 32	2 27 W.	19	35	2·20	16	1·87	13	1·74	14	1·65	13	1·47	12	1·51	10
Ashburton	50 32	3 46 W.	583	35	5·08	—	4·69	—	4·06	—	3·36	—	2·76	—	2·79	—
				40	*5·62*	—	*4·68*	—	*4·00*	—	*3·37*	—	*2·64*	—	*2·87*	—
Newquay	50 25	5 4 W.	190	35	3·00	20	2·53	17	2·24	17	2·07	15	1·74	13	1·99	12
Plymouth	50 22	4 8 W.	116	35	3·25	19	2·75	15	2·59	16	2·42	14	2·07	13	2·18	13
				40	*3·50*	*19*	*2·82*	*15*	*2·62*	*15*	*2·37*	*14*	*1·94*	*13*	*2·21*	*13*
Falmouth*	50 9	5 4 W.	167	35	4·25	20	3·60	18	3·32	18	2·80	16	2·28	14	2·37	13
				40	*4·71*	*21*	*3·73*	*18*	*3·26*	*17*	*2·83*	*16*	*2·26*	*14*	*2·40*	*13*

The averages for stations with less than 35 years' observations are obtained by comparison with a neighbouring station or stations. Thus Hoylake and Harwarden Bridge have

* *See* note on p. 258. The site of the Observatory at Falmouth was changed in May, 1885.

WHOLE YEAR, at STATIONS in the BRITISH ISLES. [The AVERAGES refer to the period of 35 Years 1876 to 1910. For some the AVERAGES for that period are added in italics.]

July.		August.		September.		October.		November.		December.		Annual.		STATIONS.
Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	
in.		in.		in.		in.		in.		in.		in.		
3·29	17	3·96	18	2·74	15	3·25	17	2·91	16	2·87	17	32·22	188	Carlisle.
—	*17*	—	*18*	—	*15*	—	*18*	—	*16*	—	*17*	—	*188*	
3·77	—	4·53	—	3·47	—	4·11	—	4·01	—	4·02	—	39·33	—	Aspatria (1892).
3·05	17	3·66	18	2·75	15	3·80	18	3·53	18	3·75	19	35·88	204	Newton Rigg (1884-1892; 1900-1910).
4·12	17	5·26	19	4·02	17	4·71	19	4·37	18	4·74	20	46·90	209	Stonyhurst.
4·25	*17*	*5·23*	*19*	*4·20*	*17*	*4·92*	*19*	*4·37*	*18*	*4·67*	*20*	*47·21*	*209*	
2·90	15	3·77	17	3·09	16	3·84	18	3·50	18	3·19	19	33·83	195	Blackpool.
2·88	15	3·76	17	2·90	14	3·65	18	3·16	17	3·14	19	32·54	188	Southport.
3·08	*15*	*3·64*	*17*	*3·06*	*15*	*3·91*	*18*	*3·17*	*17*	*3·04*	*18*	*32·95*	*189*	
3·42	17	4·07	19	3·21	15	3·87	18	3·31	18	3·72	20	37·14	203	Prestwich.
3·32	17	3·80	18	2·87	14	3·59	17	2·98	17	3·42	19	34·66	193	Manchester (City).
2·69	15	3·16	17	2·55	15	3·36	19	2·60	18	2·63	18	28·60	194	Liverpool.
2·86	*15*	*3·05*	*17*	*2·78*	*16*	*3·51*	*19*	*2·59*	*17*	*2·54*	*18*	*28·75*	*193*	
2·38	13	2·99	16	2·53	14	3·40	18	2·83	18	2·73	18	28·34	184	Hoylake (1899).
2·51	14	3·21	16	2·39	15	3·73	19	3·22	18	2·92	19	30·52	190	Llandudno.
2·56	*14*	*3·07*	*16*	*2·60*	*15*	*3·94*	*19*	*3·31*	*18*	*2·90*	*18*	*30·90*	*188*	
2·34	—	2·81	—	2·22	—	3·38	—	2·50	—	2·45	—	25·67	—	Rhyl (1881-1889; 1896-1910).
2·71	16	3·39	17	2·80	16	4·06	19	4·19	19	3·95	20	35·31	203	Holyhead.
2·66	*16*	*3·32*	*17*	*2·88*	*15*	*4·39*	*19*	*4·12*	*19*	*3·93*	*20*	*35·44*	*200*	
2·71	14	2·95	16	2·47	14	3·71	18	2·80	16	2·60	17	28·72	181	St. Asaph (1894).
2·22	14	3·03	16	2·01	13	3·01	19	2·34	17	2·20	16	24·59	177	Hawarden Bridge (1891).
2·80	14	4·55	19	3·09	16	5·47	21	4·14	19	5·74	23	47·57	219	*Llangammarch Wells (1896-1910).*
2·47	15	3·27	16	2·81	15	4·18	19	3·76	19	4·18	22	34·89	201	Pembroke (St. Ann's Hd.).
2·54	*15*	*3·22*	*17*	*2·97*	*16*	*4·26*	*20*	*3·84*	*19*	*4·19*	*21*	*35·45*	*204*	
3·11	15	4·56	17	3·45	14	4·75	19	4·00	17	4·72	19	41·74	195	Cardiff.
3·34	—	*4·51*	—	*3·64*	—	*4·88*	—	*4·03*	—	*4·60*	—	*42·41*	—	
2·77	14	3·68	15	2·64	13	3·87	16	3·19	15	3·50	17	34·23	173	Clifton.
2·94	—	*3·57*	—	*2·86*	—	*3·92*	—	*3·19*	—	*3·36*	—	*34·52*	—	
2·50	15	2·92	15	2·72	13	4·11	17	3·19	17	3·62	18	31·04	180	Woolacombe (1896).
4·14	17	5·08	19	4·33	17	6·48	20	5·61	20	6·22	22	53·40	214	Arlington.
2·87	14	3·30	16	3·00	14	4·68	18	3·92	18	4·27	19	37·11	188	Barnstaple.
3·09	*15*	*3·40*	*16*	*3·23*	*15*	*4·81*	*19*	*3·95*	*18*	*4·21*	*19*	*38·05*	*191*	
2·65	14	3·01	15	2·62	13	3·83	18	3·35	16	3·35	19	33·00	181	Shaftesbury.
2·75	—	*2·88*	—	*2·73*	—	*3·96*	—	*3·41*	—	*3·23*	—	*33·22*	—	
2·76	14	3·05	17	2·52	14	3·95	18	3·48	17	4·00	21	35·08	192	Cullompton.
2·64	13	2·83	15	2·17	12	3·83	18	3·36	16	3·95	19	32·16	177	*Rousdon (1886-1910).*
1·75	12	2·00	13	2·06	14	3·86	17	2·48	15	2·68	18	25·27	167	Portland Bill (1900).
3·12	—	3·88	—	3·41	—	5·96	—	5·71	—	6·79	—	51·61	—	Ashburton.
3·22	—	*3·84*	—	*3·67*	—	*6·16*	—	*5·76*	—	*6·61*	—	*52·44*	—	
2·28	14	2·73	15	2·64	14	4·00	19	3·68	19	4·09	22	32·99	197	Newquay (1893).
2·75	14	3·11	16	2·67	14	3·81	18	3·57	17	4·46	21	35·63	190	Plymouth.
2·85	*14*	*3·04*	*15*	*2·89*	*15*	*3·90*	*19*	*3·57*	*18*	*4·29*	*20*	*35·90*	*190*	
2·91	15	3·43	17	3·17	16	5·09	20	5·10	20	5·95	22	44·27	209	Falmouth.
3·03	*16*	*3·38*	*17*	*3·46*	*16*	*5·28*	*21*	*5·21*	*20*	*5·81*	*22*	*45·36*	*211*	

been compared with Liverpool; Rhyl and St. Asaph with Llandudno; Woolacombe with Barnstaple; Portland Bill with Plymouth and Ventnor; Newquay with Falmouth.

TABLE II. (*continued*).—SHOWING the AVERAGES of RAINFALL and NUMBER of RAIN-DAYS for EACH MONTH and for the places where records have been maintained for the 40 Years 1871–1910,

DISTRICT AND STATION.	Lat. N.	Long.	Height of Station (H) above M.S.L.	No. of years ending 1910.	January.		February.		March.		April.		May.		June.	
					Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.
9. IRELAND, N.	° ′	° ′	Feet.		in.		in.		in.		in.		in.		in.	
Malin Head	55 23	7 24 W.	208	25	2·74	22	2·31	19	2·35	20	1·90	19	2·10	18	2·16	16
Donaghadee	54 38	5 32 W.	40	35	2·54	20	2·31	18	2·16	19	2·07	16	2·35	16	2·34	15
Edenfel	54 36	7 19 W.	300	35	3·33	21	2·68	19	2·99	20	2·46	18	2·72	18	3·01	17
Belfast	54 35	5 56 W.	61	35	2·76	24	2·42	18	2·47	20	2·23	17	2·37	17	2·47	17
				40	*2·88*	—	*2·40*	—	*2·37*	—	*2·15*	—	*2·27*	—	*2·47*	—
Armagh	54 21	6 39 W.	196	35	2·55	19	2·20	17	2·32	18	2·13	17	2·44	17	2·58	16
				40	*2·65*	*19*	*2·17*	*17*	*2·20*	*18*	*2·11*	*16*	*2·29*	*16*	*2·50*	*16*
Markree Castle ..	54 11	8 27 W.	122	35	3·78	23	3·25	20	3·26	21	2·53	19	2·72	18	3·05	17
Blacksod Point ..	54 6	10 4 W.	37	25	5·13	26	3·80	22	4·00	24	2·95	20	2·87	19	2·78	17
10. IRELAND, S.																
Dublin (Glasnevin) ..	53 23	6 16 W.	67	35	2·21	16	1·97	14	2·05	14	2·07	15	2·16	14	2·17	15
Dublin(Phœnix Park)	53 22	6 21 W.	155	35	2·16	20	1·87	18	2·02	19	1·94	18	2·12	16	2·16	16
				40	*2·24*	*20*	*1·87*	*17*	*2·02*	*19*	*1·91*	*17*	*2·01*	*16*	*2·15*	*16*
Dublin (City)	53 20	6 15 W.	47	35	2·17	17	1·96	16	1·97	17	2·07	17	2·11	15	2·10	15
				40	*2·20*	*18*	*1·98*	*16*	*1·92*	*17*	*2·03*	*16*	*2·00*	*15*	*2·08*	*15*
Birr Castle	53 6	7 55 W.	175	35	2·74	20	2·24	17	2·41	18	2·21	16	2·29	15	2·45	15
				40	*2·88*	—	*2·16*	—	*2·39*	—	*2·16*	—	*2·26*	—	*2·46*	—
Kilkenny Castle ..	52 39	7 14 W.	212	35	3·12	19	2·54	16	2·24	15	2·27	17	2·21	15	2·55	14
Foynes	52 37	9 7 W.	108	30	3·73	20	3·11	17	2·86	17	2·51	16	2·35	15	2·43	15
Waterford	52 16	7 7 W.	30	35	3·59	18	3·19	16	2·64	15	2·67	15	2·27	14	2·78	13
Killarney	52 4	9 30 W.	174	30	6·01	21	4·93	19	4·62	18	3·36	18	3·04	17	2·83	15
Valencia*	51 56	10 15 W.	30	35	5·51	23	4·97	22	4·30	21	4·03	20	3·21	18	3·46	17
				40	*5·80*	*24*	*4·95*	*21*	*4·26*	*21*	*3·93*	*20*	*3·12*	*17*	*3·56*	*17*
Roche's Point ..	51 47	8 15 W.	32	35	4·39	20	3·83	18	3·02	16	3·14	16	2·59	15	3·05	13
				40	*4·66*	*20*	*3·89*	*18*	*3·03*	*16*	*3·09*	*16*	*2·53*	*14*	*3·07*	*14*
11. ENGLISH CHANNEL.																
Scilly (St. Mary's) ..	49 56	6 18 W.	131	35	2·97	20	2·57	18	2·28	18	2·13	16	1·74	13	1·76	14
				40	*3·25*	*21*	*2·62*	*18*	*2·27*	*18*	*2·11*	*16*	*1·67*	*13*	*1·82*	*14*
Guernsey (Brooklyn)	49 27	2 31 W.	295	35	3·32	20	2·77	17	2·50	18	2·44	16	1·95	13	2·10	12
				40	*3·56*	*20*	*2·78*	*17*	*2·46*	*17*	*2·41*	*15*	*1·93*	*13*	*2·11*	*12*
Jersey	49 12	2 11 W	25	35	2·92	20	2·51	18	2·40	17	2·13	15	1·90	13	2·09	12
				40	*3·07*	*20*	*2·51*	*18*	*2·33*	*16*	*2·07*	*14*	*1·90*	*12*	*2·08*	*12*

Charts for each month and for the year representing the normal geographical distribution of rainfall over the British Isles according to the figures according to 10 or 20 millimetre steps in the monthly charts and 100 or 200 millimetre steps for the yearly chart.

Millimetres	10	20	30	40	50	60	70	80	90	100	150	200	300
Inches	0·39	0·79	1·18	1·57	1·97	2·36	2·76	3·15	3·54	3·94	5·91	7·87	11·81

Charts of the normal daily distribution

* The Averages published in previous Editions of this Appendix for the Observatories at Kew, Aberdeen, Valencia and Falmouth were obtained from records partly from the 8 in. gauges and partly from the Beckley self-recording gauges. In this issue the averages for these Observatories are based entirely on the records of the Beckley self-recording gauges.

The site of Valencia Observatory was changed from Valencia Island to its present position in March, 1892.

WHOLE YEAR, at STATIONS in the BRITISH ISLES. [The AVERAGES refer to the period of 35 years 1876 to 1910. For some the AVERAGES for that period are added in italics.]

July.		August.		September.		October.		November.		December.		Annual.		STATIONS.
Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	Total.	Days.	
in.		in.		in.		in.		in.		in		in.		
2·88	19	3·69	22	2·76	18	3·11	21	3·20	21	3·15	23	32·35	238	*Malin Head (1886).*
2·91	17	3·27	19	2·62	16	2·97	18	3·07	19	3·08	21	31·69	214	Donaghadee.
3·21	19	4·13	20	3·24	17	3·66	21	3·52	22	3·97	22	38·92	234	Edenfel.
3·06	19	3·59	19	2·78	18	3·26	20	3·18	19	3·40	24	33·99	232	Belfast.
3·13	—	*3·63*	—	*2·87*	—	*3·40*	—	*3·22*	—	*3·31*	—	*34·10*	—	
3·01	18	3·55	19	2·63	17	2·74	19	2·79	19	2·88	20	31·82	216	Armagh.
3·13	*19*	*3·52*	*19*	*2·75*	*17*	*2·85*	*19*	*2·81*	*18*	*2·81*	*20*	*31·79*	*214*	
3·46	21	4·28	22	3·67	19	4·11	21	4·02	22	4·43	24	42·56	247	Markree Castle.
3·14	22	4·84	23	4·08	20	5·10	23	5·06	23	5·83	26	49·58	265	*Blacksod Point (1886)*
2·63	15	3·32	16	2·08	13	2·74	17	2·68	16	2·41	17	28·49	182	Dublin (Glasnevin).
2·72	18	3·19	19	1·99	16	2·67	19	2·75	19	2·44	21	28·03	219	Dublin (Phœnix Park)
2·75	*19*	*3·20*	*19*	*2·11*	*16*	*2·85*	*19*	*2·75*	*19*	*2·42*	*20*	*28·28*	*217*	
2·59	17	3·12	18	2·00	15	2·74	18	2·62	16	2·39	18	27·84	199	Dublin (City).
2·62	*17*	*3·14*	*17*	*2·09*	*15*	*2·87*	*18*	*2·62*	*17*	*2·36*	*18*	*27·91*	*199*	
2·99	17	3·85	19	2·53	15	2·87	18	3·06	18	3·10	20	32·74	208	Birr Castle.
3·04	—	*3·88*	—	*2·67*	—	*2·99*	—	*3·02*	—	*3·09*	—	*33·00*	—	
2·59	15	3·57	17	2·47	13	3·15	16	3·01	17	3·30	19	33·02	193	Kilkenny.
3·02	18	3·98	20	2·97	17	3·84	20	3·99	21	4·49	22	39·28	218	*Foynes (1881).*
3·04	14	3·84	16	2·99	13	3·86	16	3·72	17	4·28	18	38·87	185	Waterford.
3·33	18	4·55	20	3·63	17	5·44	21	5·61	21	6·90	23	54·25	228	*Killarney (1881).*
3·72	20	5·11	23	4·18	19	5·27	22	5·47	22	6·44	25	55·67	252	Valencia.
3·92	*20*	*5·02*	*22*	*4·41*	*19*	*5·52*	*22*	*5·43*	*22*	*6·32*	*25*	*56·24*	*250*	
2·88	15	4·01	17	3·11	15	4·05	18	4·32	19	5·19	22	43·58	204	Roche's Point.
2·99	*15*	*4·04*	*17*	*3·33*	*15*	*4·21*	*18*	*4·48*	*19*	*5·17*	*22*	*44·49*	*204*	
2·24	16	2·68	17	2·57	16	3·70	21	3·48	20	4·28	22	32·40	211	Scilly.
2·27	*16*	*2·62*	*17*	*2·82*	*16*	*3·85*	*21*	*3·57*	*20*	*4·24*	*22*	*33·11*	*212*	
2·13	13	2·62	14	2·97	16	4·73	21	4·76	21	4·42	21	36·71	202	Guernsey (Brooklyn).
2·27	*13*	*2·58*	*14*	*2·98*	*16*	*4·94*	*21*	*4·78*	*21*	*4·40*	*21*	*37·20*	*200*	
2·01	13	2·43	15	2·67	15	4·53	21	4·18	21	3·85	21	33·62	201	Jersey.
2·20	*13*	*2·40*	*14*	*2·74*	*15*	*4·60*	*20*	*4·17*	*20*	*3·85*	*21*	*33·92*	*195*	

here given have been printed at the Meteorological Office Press to accompany these tables. The isohyets, or lines of equal rainfall, have been drawn The following table of equivalents may be used for comparing the figures of the table with the isohyets of the chart:—

400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	Millimetres.
15·75	19·69	23·62	27·56	31·50	35·43	39·37	43·31	47·24	51·18	55·12	59·06	62·99	Inches.

of bright sunshine in hours are also given.

TABLE III.—SHOWING the AVERAGES of DAILY DURATION of BRIGHT SUNSHINE for each MONTH and for the WHOLE YEAR, at STATIONS in the BRITISH ISLES, derived from

DISTRICT AND STATION.	Lat. N.	Long.	Height of Station (H) above M.S.L.	No. of Years ending 1916.	January.			February.			March.			April.			May.			June.		
					Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.
0. SCOTLAND, N	° ′	° ′	Feet.		hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%
Deerness	58 56	2 45 W.	160	20	1·00	31	15	2·06	58	23	3·39	105	29	5·13	154	36	5·71	177	34	5·17	155	29
				30	1·00	31	15	1·99	56	22	3·16	98	27	5·00	150	35	5·74	178	34	5·33	160	30
Stornoway	58 11	6 22 W.	51	30	0·90	28	13	2·13	60	23	3·35	104	29	5·30	159	37	6·19	192	37	5·97	179	34
Strathpeffer	57 37	4 28 W.	200	21	1·16	36	16	2·34	66	25	3·39	105	29	4·70	141	33	5·29	164	32	5·13	154	29
				30	1·16	36	16	2·34	66	25	3·32	103	28	4·53	136	32	5·29	164	32	5·27	158	30
Fort Augustus	57 8	4 40 W.	68	23	0·58	18	8	1·63	46	18	2·61	81	22	3·87	116	27	4·32	134	26	4·67	140	27
				30	0·58	18	8	1·63	46	18	2·58	80	22	3·83	115	27	4·32	134	26	4·63	139	26
1. SCOTLAND, E.																						
Aberdeen	57 10	2 6 W.	46	30	1·55	48	21	2·55	72	28	3·61	112	31	5·03	151	36	5·84	181	36	5·93	178	34
Edinburgh	55 57	3 12 W.	125	20	1·00	31	13	2·27	64	24	3·10	96	27	4·30	129	31	5·16	160	32	5·27	158	31
				30	1·06	33	14	2·23	63	24	2·74	85	23	4·00	120	29	5·23	162	32	5·27	158	31
Blackford Hill (Edinburgh)	55 57	3 12 W.	441	10	1·52	47	20	2·77	78	30	3·58	111	30	4·77	143	34	5·29	164	33	6·37	191	37
				30	1·68	52	22	2·84	80	30	3·71	115	32	4·43	133	32	5·55	172	34	6·17	185	36
Marchmont	55 44	2 25 W.	498	30	1·42	44	19	2·45	69	26	3·45	107	29	4·73	142	34	5·68	176	35	6·20	186	36
2. ENGLAND, N.E.																						
Cockle Park (near Morpeth)	55 13	1 41 W.	324	13	1·65	51	22	2·94	83	31	4·00	124	34	4·97	149	36	5·42	168	34	5·93	178	35
				30	1·74	54	23	2·80	79	30	4·06	126	35	4·73	142	34	5·81	180	36	5·87	176	34
Newcastle-on-Tyne	54 59	1 36 W.	152	16	0·87	27	11	1·81	51	19	2·74	85	23	3·90	117	28	4·42	137	28	4·87	146	29
				30	0·84	26	11	1·74	49	18	2·84	88	24	3·60	108	26	4·55	141	29	4·77	143	28
Durham	54 46	1 35 W.	336	30	1·52	47	20	2·45	69	26	3·68	114	31	4·50	135	32	5·42	168	34	5·70	171	34
Scarborough	54 18	0 24 W.	100	12	1·48	46	19	2·59	73	27	3·94	122	34	5·17	155	37	5·87	182	37	5·67	170	34
				30	1·45	45	19	2·45	69	26	3·97	123	34	5·00	150	36	6·45	200	41	5·50	165	33
York	53 57	1 5 W.	56	30	1·03	32	13	2·06	58	21	3·32	103	28	4·57	137	33	5·55	172	35	5·77	173	34
3. ENGLAND, E.																						
Hillington	52 48	0 33 E.	88	30	1·58	49	20	2·52	71	26	3·74	116	32	5·23	157	38	6·55	203	42	6·43	193	39
Lowestoft	52 29	1 45 E.	83	11	2·13	66	27	2·70	76	28	4·32	134	37	6·27	188	46	7·03	218	45	6·87	206	42
				30	1·90	59	24	2·87	81	30	4·55	141	39	6·00	180	44	7·45	231	48	7·27	218	44
Geldeston	52 28	1 31 E.	37	30	1·84	57	23	2·62	74	27	4·13	128	35	5·47	164	40	6·97	216	45	6·83	205	41
Cambridge	52 12	0 8 E.	41	30	1·74	54	22	2·66	75	27	4·00	124	34	5·43	163	40	6·52	202	42	6·57	197	40
Rothamsted	51 48	0 22 W.	424	20	1·84	57	23	2·70	76	28	3·94	122	33	5·47	164	40	6·35	197	41	6·50	195	40
				30	1·74	54	21	2·52	71	26	3·81	118	32	5·23	157	38	6·29	195	41	6·43	193	39
4. MIDLAND COS.																						
Harrogate	54 0	1 33 W.	479	10	1·74	54	22	2·62	74	27	3·87	120	33	5·43	163	39	5·39	167	34	6·43	193	38
				30	1·68	52	21	2·66	75	28	3·94	122	34	5·17	155	37	5·81	180	37	6·50	195	39
Sheffield	53 23	1 29 W.	429	13	1·45	45	18	2·30	65	24	3·29	102	28	4·77	143	34	5·10	158	32	5·77	173	35
				30	1·42	44	18	2·23	63	23	3·29	102	28	4·63	139	33	5·52	171	35	5·53	166	33
Worksop (Hodsock)	53 22	1 5 W.	53	30	1·26	39	16	2·09	59	22	3·35	104	29	4·47	134	32	5·45	169	35	5·43	163	33
Birmingham	52 28	1 56 W.	535	24	1·16	36	14	1·88	53	19	2·77	86	24	3·93	118	29	4·77	148	31	4·97	149	30
				30	1·10	34	14	1·81	51	19	2·87	89	24	3·93	118	29	4·81	149	31	4·97	149	30
Oxford	51 46	1 16 W.	208	30	1·65	51	20	2·48	70	25	3·71	115	32	5·10	153	37	6·29	195	41	6·37	191	39
Cirencester	51 43	1 57 W.	446	30	1·61	50	20	2·62	74	27	3·81	118	32	5·27	158	38	6·52	202	42	6·43	193	39
Bath	51 23	2 21 W.	66	11	1·81	56	22	2·77	78	28	3·84	119	33	5·40	162	39	6·61	205	43	6·33	190	39
				30	1·55	48	19	2·70	76	28	4·10	127	35	5·20	156	38	6·81	211	44	6·60	198	40
LONDON.																						
Bunhill Row	51 31	0 5 W.	80	30	0·52	16	6	1·13	32	12	2·35	73	20	4·13	124	30	5·68	176	37	5·87	176	36
Westminster	51 30	0 8 W.	27	28	0·71	22	9	1·31	37	13	2·35	73	20	4·07	122	30	5·42	168	35	5·63	169	35
				30	0·71	22	9	1·28	36	13	2·39	74	20	4·07	122	30	5·48	170	35	5·57	167	34
Kew	51 28	0 19 W.	18	30	1·39	43	17	2·09	59	21	3·48	108	30	5·07	152	37	6·45	200	42	6·43	193	39
5. ENGLAND, S.E.																						
Marlborough	51 25	1 44 W.	424	30	1·42	44	17	2·16	61	22	3·42	106	29	4·77	143	35	6·00	186	39	6·03	181	37
Margate	51 24	1 24 E.	53	19	1·77	55	22	2·62	74	27	4·19	130	36	5·70	171	42	6·58	204	43	6·33	190	39
				30	1·71	53	21	2·59	73	26	4·16	129	35	5·53	166	40	6·65	206	43	6·33	190	39
Broadstairs	51 21	1 26 E.	140	10	2·32	72	28	2·94	83	30	4·19	130	36	6·13	184	45	7·42	230	48	6·83	205	42
				30	1·97	61	24	2·91	82	30	4·29	133	36	5·83	175	43	7·42	230	48	6·90	207	42
Tunbridge Wells	51 8	0 16 E.	421	18	1·81	56	22	2·77	78	28	4·23	131	36	5·73	172	42	6·87	213	45	6·73	202	41
				30	1·71	53	21	2·52	71	26	4·06	126	35	5·50	165	40	6·81	211	44	6·67	200	41
Littlestone-on-Sea	50 59	0 59 E.	—	11	1·97	61	24	2·70	76	27	4·10	127	35	6·13	184	45	7·00	217	45	6·93	208	43
				30	1·74	54	23	2·70	76	27	4·29	133	36	5·83	175	43	7·13	221	46	7·00	210	43
Southampton	50 55	1 24 W.	65	30	1·77	55	21	2·77	78	28	4·16	129	35	5·70	171	42	7·06	219	46	7·00	210	43

The 30 years' averages for stations with less than 30 years' observations are obtained by comparison with a neighbouring station or stations. Thus Deerness has been compared with Cockle Park with Durham and Marchmont; Newcastle with Durham; Scarborough with Durham and York; Lowestoft with Geldeston; Rothamsted with Cambridge; Harrogate with St. Leonards; Tunbridge

together with the corresponding MONTHLY and ANNUAL TOTALS and the PERCENTAGES of the POSSIBLE DURATION, in each instance, Records extending over the 30 Years 1881–1910.

July.			August.			September.			October.			November.			December.			Year.			STATIONS.
Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	
hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr,	%	hr.	hr.	%	hr.	hr.	%	
4·23	131	24	3·97	123	26	3·70	111	29	2·65	82	27	1·27	38	17	0·71	22	12	3·25	1,187	27	Deerness.
4·48	139	26	3·90	121	26	3·53	106	28	2·45	76	25	1·23	37	16	0·68	21	11	3·21	1,173	27	
4·65	144	27	4·26	132	28	3·83	115	30	2·74	85	27	1·40	42	18	0·77	24	12	3·46	1,264	29	Stornoway.
4·19	130	25	4·06	126	27	3·80	114	30	2·74	85	27	1·53	46	20	0·84	26	13	3·27	1,193	27	Strathpeffer.
4·29	133	25	4·00	124	27	3·70	111	29	2·71	84	27	1·53	46	20	0·87	27	13	3·25	1,188	27	
3·45	107	20	3·19	99	21	3·10	93	25	2·10	65	21	0·83	25	11	0·39	12	6	2·56	936	21	Fort Augustus.
3·48	108	21	3·16	98	21	3·03	91	24	2·06	64	20	0·83	25	11	0·39	12	6	2·55	930	21	
5·00	155	30	4·74	147	32	4·00	120	32	3·03	94	30	1·77	53	23	1·10	34	17	3·68	1,345	30	Aberdeen.
4·77	148	29	4·68	145	32	3·57	107	28	2·71	81	27	1·47	44	18	0·74	23	11	3·26	1184	27	Edinburgh.
4·68	145	28	4·55	141	31	3·47	104	28	2·68	83	26	1·43	43	18	0·81	25	12	3·18	1,162	26	
5·39	167	32	5·26	163	36	4·13	124	33	3·10	96	30	2·30	69	29	1·32	41	19	3·82	1,394	32	Blackford Hill.
5·45	169	33	5·03	156	34	3·97	119	32	3·26	101	32	2·10	63	26	1·45	45	21	3·81	1,390	32	
5·45	169	33	4·81	149	33	3·97	119	32	2·71	84	27	1·70	51	21	1·13	35	16	3·65	1,331	30	Marchmont.
5·65	175	34	5·32	165	36	4·53	136	36	3·16	98	31	2·30	69	28	1·32	41	19	3·94	1437	33	Cockle Park.
5·55	172	34	5·16	160	35	4·30	129	34	3·16	98	31	2·13	64	26	1·39	43	20	3·90	1,423	32	
4·74	147	29	4·29	133	29	3·40	102	27	2·23	69	22	1·17	35	14	0·65	20	9	2·93	1,069	24	Newcastle.
4·55	141	28	4·19	130	29	3·20	96	26	2·16	67	21	1·13	34	14	0·71	22	10	2·86	1,045	24	
5·35	166	33	4·84	150	33	3·90	117	31	2·84	88	28	1·83	55	22	1·32	41	19	3·62	1,321	30	Durham.
5·68	176	35	5·52	171	38	4·60	138	37	3·03	94	29	1·83	55	22	0·94	29	13	3·87	1,411	32	Scarborough.
5·61	174	34	5·29	164	36	4·40	132	35	3·06	95	30	1·63	49	20	0·97	30	13	3·82	1,396	32	
5·61	174	34	4·94	153	34	4·03	121	32	2·71	84	26	1·40	42	17	0·77	24	11	3·49	1,273	29	York.
6·35	197	40	5·81	180	40	4·67	140	37	3·10	96	30	1·87	56	22	1·26	39	17	4·10	1,497	34	Hillington.
7·42	230	46	6·77	210	47	5·73	172	46	3·45	107	33	2·40	72	28	1·39	43	18	4·72	1.722	39	Lowestoft.
7·35	228	46	6·90	214	48	5·73	172	46	3·68	114	35	2·27	68	27	1·48	46	20	4·80	1,752	40	
6·71	208	42	6·16	191	43	5·17	155	41	3·48	108	33	2·13	64	25	1·52	47	20	4·43	1,617	37	Geldeston.
6·65	206	42	6·13	190	43	4·97	149	40	3·39	105	32	2·03	61	24	1·29	40	17	4·29	1,566	36	Cambridge.
6·81	211	43	6·39	198	44	5·13	154	41	3·29	102	31	2·07	62	24	1·42	44	19	4·33	1,582	36	Rothamsted.
6·68	207	42	6·13	190	43	4·93	148	40	3·29	102	31	2·13	64	25	1·39	43	18	4·22	1,542	35	
5·97	185	37	5·55	172	38	4·30	129	34	2·94	91	28	2·13	64	25	1·32	41	18	3·98	1453	33	Harrogate.
5·90	183	36	5·26	163	36	4·17	125	33	3·10	96	30	1·83	55	22	1·32	41	18	3·95	1442	33	
6·13	190	38	5·39	167	37	4·00	120	32	2·71	84	26	1·60	48	19	1·03	32	14	3·64	1327	30	Sheffield.
5·87	182	36	5·16	160	35	3·93	118	31	2·81	87	27	1·57	47	19	1·16	36	16	3·60	1315	30	
5·29	164	33	4·81	149	33	3·93	118	31	2·68	83	26	1·53	46	18	0·94	29	13	3·44	1257	28	Worksop.
4·87	151	30	4·74	147	33	3·70	111	30	2·29	71	22	1·27	38	15	0·94	29	12	3·12	1137	26	Birmingham.
4·87	151	30	4·65	144	32	3·63	109	29	2·26	70	22	1·30	39	15	0·94	29	12	3·10	1132	26	
6·48	201	41	6·03	187	42	4·80	144	39	3·19	99	31	1·97	59	23	1·32	41	17	4·13	1506	34	Oxford.
6·39	198	40	5·94	184	41	4·63	139	37	3·16	98	30	1·97	59	23	1·26	39	16	4·14	1512	34	Cirencester.
6·97	216	44	6·39	198	44	5·00	150	40	3·16	98	30	2·30	69	27	1·29	40	17	4·33	1581	36	Bath.
6·77	210	43	6·32	196	44	4·97	149	40	3·26	101	31	2·17	65	25	1·32	41	17	4·32	1578	36	
5·87	182	37	5·42	168	38	3·83	115	31	2·10	65	20	0·77	23	9	0·26	8	3	3·17	1158	26	Bunhill Row.
5·74	178	36	5 61	174	39	4·07	122	33	2·29	71	22	0·90	27	10	0·48	15	6	3·23	1178	27	Westminster.
5·81	180	37	5·55	172	39	4·03	121	32	2·29	71	22	0·93	28	11	0·48	15	6	3·23	1178	27	
6·58	204	41	6·16	191	43	4·70	141	38	2·97	92	28	1·70	51	20	1·16	36	15	4·03	1470	33	Kew.
6·10	189	38	5·71	177	40	4·33	130	35	3·03	94	29	1·77	53	20	1·13	35	15	3·83	1399	32	Marlborough.
6·77	210	43	6·42	199	45	5·40	162	43	3·35	104	32	2·07	62	24	1·42	44	18	4·40	1605	36	Margate.
6·58	204	41	6·23	193	43	5·30	159	43	3·45	107	33	2·00	60	23	1·42	44	18	4·34	1584	36	
7·35	228	46	7·00	217	49	5·87	176	47	3·55	110	34	2·47	74	28	1·61	50	21	4·82	1759	40	Broadstairs.
7·19	223	45	6·77	210	47	5·70	171	46	3·84	119	37	2·13	64	25	1·71	53	22	4·73	1728	39	
7·13	221	45	6·74	209	47	5·57	167	45	3·45	107	33	2·33	70	27	1·42	44	18	4·58	1670	38	Tunbridge Wells.
6·77	210	43	6·48	201	45	5·30	159	43	3·52	109	34	2·30	69	26	1·39	43	18	4·43	1617	37	
7·39	229	47	6·74	209	47	5·70	171	46	3·55	110	34	2·30	69	26	1·32	41	17	4·66	1702	39	Littlestone-on-Sea.
7·03	218	45	6·55	203	46	5·40	162	43	3·77	117	36	2·10	63	24	1·42	44	18	4·59	1676	38	
7·13	221	45	6·74	209	47	5·37	161	43	3·55	110	34	2·17	65	25	1·55	48	20	4·59	1676	38	Southampton

Sandwick and Swanbister; Strathpeffer with Aberdeen and Stornoway; Fort Augustus with Aberdeen, Glasgow and Stornoway; Edinburgh and Blackford Hill with Marchmont; with Stonyhurst and York; Sheffield with Worksop: Birmingham and Bath with Oxford; Westminster with Kew; Margate with Geldeston and St. Leonards; Broadstairs and Littlestone Wells with Kew.

TABLE III. (*continued*).—SHOWING the AVERAGES of DAILY DURATION of BRIGHT SUNSHINE for each MONTH and for the WHOLE instance, at STATIONS in the BRITISH ISLES, derived

DISTRICT AND STATION.	Lat. N.	Long.	Height of Station (H) above M.S.L.	No. of Years ending 1910.	January.			February.			March.			April.			May.			June.		
					Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.
5. ENGLAND, S.E.—*cont.*	° ′	° ′	Feet.		hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%
St. Leonards	50 51	0 33 E.	178	30	2·06	64	25	2·98	84	30	4·48	139	38	5·93	178	43	7·55	234	49	7·53	226	47
Brighton	50 49	0 8 W.	31	21	2·06	64	25	3·05	86	31	4·35	135	37	5·93	178	43	7·45	231	49	7·37	221	45
				30	1·90	59	23	2·84	80	29	4·32	134	37	5·77	173	42	7·29	226	47	7·37	221	45
Worthing	50 49	0 22 W.	35	12	2·32	72	28	3·19	90	32	4·52	140	38	6·13	184	45	7·55	234	49	7·63	229	47
				30	2·03	63	24	3·05	86	31	4·61	143	39	5·93	178	43	7·61	236	50	7·63	229	47
Eastbourne	50 46	0 17 E.	39	25	2·06	64	25	2·94	83	30	4·35	135	37	6·00	180	44	7·39	229	48	7·53	226	47
				30	1·94	60	23	2·80	79	28	4·48	139	38	5·93	178	43	7·39	229	48	7·47	224	46
Ventnor	50 36	1 13 W.	59	21	2·06	64	25	3·01	85	30	4·29	133	36	5·97	179	44	6·94	215	45	6·70	201	41
				30	1·97	61	24	2·98	84	30	4·68	145	40	6·03	181	44	7·23	224	47	6·70	201	41
6. SCOTLAND, W.																						
Glasgow	55 53	4 18 W.	180	30	0·71	22	9	1·63	46	17	2·74	85	23	4·23	127	30	5·23	162	32	5·50	165	32
Douglas	54 10	4 28 W.	277	30	1·58	49	20	2·59	73	27	4·29	133	37	6·07	182	44	7·19	223	45	7·30	219	43
7. ENGLAND, N.W. AND NORTH WALES.																						
Newton Rigg	54 40	2 49 W.	559	21	1·29	40	17	2·34	66	25	3·52	109	30	5·13	154	37	5·81	180	37	6·87	206	40
				30	1·32	41	17	2·27	64	24	3·52	109	30	5·07	152	36	6·26	194	39	6·87	206	40
Stonyhurst	53 51	2 28 W.	375	30	1·13	35	14	2·13	60	22	3·48	108	30	5·00	150	36	6·13	190	39	6·33	190	38
Blackpool*	53 49	3 3 W.	66	10	1·61	50	20	2·70	76	28	3·90	121	33	5·70	171	41	7·10	220	45	7·27	218	43
Southport	53 39	2 59 W.	37	15	1·48	46	19	2·62	74	27	4·00	124	34	5·67	170	41	6·84	212	43	6·90	207	41
				30	1·58	49	20	2·62	74	27	3·87	120	33	5·50	165	40	6·90	214	44	6·97	209	42
Prestwich	53 32	2 17 W	320	17	0·71	22	9	1·60	45	17	2·90	90	25	4·40	132	32	5·61	174	36	5·67	170	34
				30	0·71	22	9	1·56	44	16	2·81	87	24	4·27	128	31	5·55	172	35	5·60	168	34
Hoylake	53 23	3 12 W.	30	13	1·68	52	21	2·77	78	29	3·84	119	33	5·33	160	38	6·19	192	39	6·70	201	40
				30	1·48	46	19	2·55	72	27	3·42	106	29	5·00	150	36	6·00	186	38	6·30	189	38
Llandudno	53 20	3 50 W.	71	30	1·61	50	20	2·55	72	26	3·74	116	32	5·33	160	39	6·61	205	42	6·80	204	41
Rhyl	53 19	3 29 W.	30	10	2·23	69	28	2·94	83	31	3·74	133	38	6·07	182	44	6·90	214	44	6·93	208	42
				30	1·90	59	24	2·84	80	29	4·06	126	35	5·53	166	40	6·61	205	42	6·60	198	40
8. SOUTH WALES AND ENGLAND, S.W.																						
Pembroke .. .. St. Ann's Hd.	51 41	5 11 W.	149	30	1·77	55	22	2·73	77	28	4·29	133	36	5·93	178	43	7·06	219	46	7·43	223	46
Tenby	51 41	4 42 W.	79	12	2·00	62	25	2·87	81	29	4·19	130	36	5·73	172	42	7·03	218	45	7·07	212	43
				30	1·90	59	23	2·77	78	28	4·35	135	37	5·97	179	43	7·16	222	46	7·70	231	47
Woolacombe	51 10	4 12 W.	59	15	1·87	58	23	2·73	77	28	4·16	129	35	5·60	168	41	7·06	219	46	7·17	212	43
				30	1·81	56	22	2·80	79	29	4·42	137	38	5·87	176	43	7·00	217	45	7·50	225	46
Cullompton	50 51	3 23 W.	202	30	1·52	47	18	2·52	71	26	3·97	123	34	5·20	156	38	6·42	199	42	6·50	195	40
Torquay	50 28	3 31 W.	12	11	2·23	69	27	3·37	95	34	4·55	141	39	6·10	183	45	7·55	234	49	7·00	210	43
				30	2·03	63	24	3·19	90	32	4·68	145	40	6·03	181	44	7·39	229	48	7·43	223	46
Newquay	50 25	5 4 W.	190	19	1·94	60	23	2·94	83	30	4·61	143	39	5·97	179	44	7·42	230	48	7·33	220	45
				30	1·77	55	21	2·87	81	29	4·39	136	37	5·73	172	42	7·19	223	47	7·27	218	45
Plymouth	50 22	4 8 W.	116	30	1·74	54	21	2·84	80	29	4·35	135	37	5·77	173	42	7·10	220	46	7·10	213	44
Falmouth	50 9	5 4 W.	167	30	1·84	57	22	2·98	84	30	4·48	139	38	6·02	181	44	7·39	229	48	7·37	221	46
9. IRELAND, N.																						
Armagh	54 21	6 39 W.	196	30	1·45	45	19	2·23	63	23	3·35	104	29	4·87	146	35	5·90	183	37	5·63	169	33
Markree	54 11	8 27 W.	122	30	1·35	42	17	2·23	63	23	3·39	105	29	4·93	148	35	5·94	184	37	5·57	167	33
10. IRELAND, S.																						
Dublin (Phœnix Park)	53 22	6 21 W.	155	30	1·90	59	24	2·66	75	28	3·97	123	34	5·40	162	39	6·74	209	43	6·37	191	38
Birr Castle	53 6	7 55 W.	175	30	1·61	50	20	2·38	67	25	3·55	110	30	5·10	153	37	5·97	185	38	5·50	165	33
Valencia	51 56	10 15 W.	30	30	1·58	49	20	2·48	70	25	4·00	124	34	5·30	159	39	6·68	207	43	6·33	190	39
11. ENGLISH CHANNEL.																						
Scilly	49 56	6 18 W.	131	17	2·03	63	24	2·98	84	30	4·61	143	39	5·93	178	43	7·68	238	50	7·37	221	46
				30	1·94	60	23	3·09	87	31	4·68	145	40	6·03	181	44	7·45	231	49	7·93	238	49
Guernsey (Brooklyn)	49 27	2 31 W.	295	6	2·32	72	27	3·16	89	32	5·16	160	44	6·47	194	47	7·71	239	51	7·63	229	48
				30	2·00	62	23	3·16	89	32	4·84	151	41	6·40	192	47	8·26	256	54	8·23	247	51
Guernsey (Villa Carey)	49 27	2 32 W.	180	6	2·26	70	27	3·16	89	32	5·19	161	44	6·50	195	48	7·65	237	50	7·53	226	47
				30	1·94	60	23	3·16	89	32	4·87	151	41	6·43	193	47	8·19	254	54	8·13	244	51
Jersey	49 12	2 11 W.	25	30	2·23	69	26	3·26	92	33	4·90	152	42	6·43	193	47	7·87	244	52	7·97	239	50

The 30 years' averages for stations with less than 30 years' observations are obtained by comparison with a neighbouring station or stations. Thus Brighton, Eastbourne, and Ventnor Llandudno; Tenby, Woolacombe, and Scilly with Pembroke;

* A new lens was provided in 1901 and since that date the duration recorded at Blackpool has been considerably higher than previously when compared with the records from other monthly averages, which are themselves obtained from

YEAR, together with the corresponding MONTHLY and ANNUAL TOTALS and the PERCENTAGES of the POSSIBLE DURATION, in each from Records extending over the 30 Years 1881–1910.

July.			August.			September.			October.			November.			December.			Year.			STATIONS.
Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	Daily Mean.	Total Hours.	Per cent.	
hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	hr.	hr.	%	
7·61	236	42	6·94	215	48	5·67	170	46	3·84	119	37	2·47	74	28	1·81	56	23	4·92	1795	41	St. Leonards.
7·52	234	48	7·06	219	49	5·73	172	46	3·74	116	36	2·53	76	29	1·65	51	21	4·88	1782	40	Brighton.
7·35	228	47	7·00	217	49	5·50	165	44	3·71	115	35	2·37	71	27	1·68	52	21	4·77	1741	39	
8·06	250	51	7·52	233	52	6·03	181	49	3·81	118	36	2·77	83	32	1·71	53	22	5·12	1867	42	Worthing.
7·58	235	48	7·13	221	50	5·73	172	46	3·94	122	37	2·50	75	29	1·84	57	24	4·98	1817	41	
7·68	238	49	6·90	214	48	5·83	175	47	3·74	116	36	2·37	71	27	1·77	55	23	4·89	1786	40	Eastbourne.
7·68	238	49	6·90	214	48	5·73	172	46	3·74	116	36	2·33	70	27	1·74	54	22	4·86	1773	40	
7·35	228	49	6·84	212	48	5·83	175	47	3·81	118	36	2·40	72	27	1·68	52	21	4·75	1734	39	Ventnor.
7·13	221	45	6·77	210	47	5·73	172	46	3·84	119	37	2·40	72	27	1·65	51	21	4·77	1741	39	
4·65	144	28	4·23	131	29	3·33	100	27	2·16	67	21	0·90	27	11	0·48	15	7	2·99	1091	25	Glasgow.
6·48	201	40	5·68	176	39	4·87	146	39	3·26	101	32	2·10	63	25	1·29	40	18	4·40	1606	36	Douglas.
5·71	177	35	4·97	154	34	4·33	130	35	2·68	83	26	1·73	52	21	1·16	36	16	3·80	1387	31	Newton Rigg.
5·84	181	35	4·90	152	33	4·23	127	34	2·74	85	27	1·73	52	21	1·06	33	15	3·82	1396	32	
5·74	178	35	4·87	151	33	4·17	125	33	2·81	87	27	1·53	46	18	0·84	26	11	3·69	1346	30	Stonyhurst.
6·58	204	40	5·65	175	39	4·80	144	38	3·19	99	31	1·77	53	21	1·26	39	17	4·30	1570	36	Blackpool.
6·77	210	42	5·84	181	40	4·50	135	36	3·06	95	30	1·80	54	22	1·13	35	15	4·22	1542	35	Southport.
6·45	200	40	5·55	172	38	4·53	136	36	3·03	94	29	1·67	50	20	1·23	38	17	4·16	1521	34	
5·52	171	34	4·52	140	31	3·77	113	30	2·16	67	21	1·07	32	13	0·48	15	7	3·21	1171	27	Prestwich.
5·23	162	32	4·42	137	30	3·70	111	30	2·16	67	21	1·00	30	12	0·52	16	7	3·13	1144	26	
6·52	202	40	5·77	179	40	4·50	135	36	2·84	88	27	1·93	58	23	1·32	41	18	4·12	1505	34	Hoylake.
5·94	184	37	5·26	163	36	3·97	119	32	2·61	81	25	1·70	51	20	1·13	35	15	3·79	1382	31	
6·10	189	38	5·48	170	38	4·47	134	36	2·90	90	28	1·87	56	22	1·19	37	16	4·06	1483	34	Llandudno.
6·87	213	43	6·26	194	43	5·30	159	42	3·26	101	31	2·37	71	28	1·77	55	24	4·62	1688	38	Rhyl.
6·32	196	39	5·74	178	39	4·67	140	37	3·10	96	30	2·00	60	24	1·48	46	20	4·25	1550	35	
6·74	209	42	6·23	193	43	5·00	150	40	3·32	103	32	2·17	65	25	1·35	42	18	4·51	1647	37	Pembroke (St.Ann's Hd.).
7·14	221	45	6·71	208	47	5·23	157	42	3·39	105	32	2·47	74	29	1·32	41	17	4·61	1681	38	Teuby.
6·90	214	43	6·45	200	45	5·07	152	41	3·42	106	33	2·30	69	27	1·52	47	20	4·64	1692	38	
6·71	208	42	6·23	193	43	5·23	157	42	3·35	104	32	2·57	77	30	1·45	45	19	4·51	1647	37	Woolacombe.
6·39	198	40	6·03	187	42	5·13	154	41	3·39	105	32	2·37	71	27	1·58	49	21	4·53	1654	33	
6·06	188	39	5·90	183	41	4·80	144	39	2·97	92	28	1·93	58	22	1·19	37	15	4·09	1493	34	Cullompton
7·74	240	49	7·06	219	49	5·57	167	45	3·61	112	34	2·83	85	32	1·71	53	22	4·95	1808	41	Torquay.
7·35	228	47	6·77	210	47	5·30	159	43	3·58	111	34	2·33	70	27	1·94	60	25	4·85	1769	40	
6·97	216	44	6·71	208	47	5·63	169	45	3·65	113	35	2·63	79	30	1·58	49	20	4·79	1749	40	Newquay.
6·77	210	43	6·52	202	45	5·37	161	43	3·68	114	35	2·53	76	29	1·58	49	20	4·65	1697	38	
6·81	211	43	6·42	199	45	5·27	158	42	3·48	108	33	2·30	69	26	1·58	49	20	4·57	1669	38	Plymouth.
7·19	223	46	6·81	211	48	5·37	161	43	3·65	113	35	2·43	73	28	1·71	53	22	4·78	1745	40	Falmouth.
4·71	146	29	4·23	132	29	3·90	117	31	2·90	90	28	2·00	60	24	1·23	38	17	3·54	1293	29	Armagh.
4·32	134	26	4·13	128	28	3·63	109	29	2·84	88	27	1·87	56	22	1·10	34	15	3·45	1258	28	Markree.
5·52	171	34	5·26	163	36	4·63	139	37	3·42	106	33	2·37	71	28	1·58	49	21	4·16	1,518	34	Dublin (Phœnix Park).
4·53	142	28	4·58	142	32	4·17	125	33	3·10	96	30	2·13	64	25	1·39	43	19	3·68	1,342	30	Birr Castle.
5·06	157	32	4·90	152	34	4·40	132	35	3·26	101	31	2·20	66	26	1·32	41	17	3·96	1,448	33	Valencia.
7·13	221	46	6·97	216	49	5·90	177	47	3·74	116	35	2·60	78	29	1·61	50	20	4·89	1,785	40	Scilly.
7·03	218	45	7·23	224	51	5·67	170	46	3·77	117	36	2·50	75	28	1·81	56	23	4·94	1,802	41	
7·87	244	51	7·61	236	54	5·90	177	47	4·00	124	38	2·37	71	26	1·53	49	19	5·16	1,884	43	Guernsey (Brooklyn).
8·26	256	53	7·84	243	55	6·07	182	49	4·13	128	39	2·23	67	25	1·74	54	22	5·26	1,926	44	
7·74	240	50	7·77	241	55	6·10	183	49	4·13	128	39	2·37	71	26	1·52	47	19	5·17	1,888	43	Guernsey (Villa Carey).
8·13	252	52	8·00	248	56	6·27	188	50	4·26	132	40	2·23	67	25	1·68	52	21	5·27	1,930	44	
7·97	247	51	7·81	242	55	6·13	184	49	4·06	126	38	2·57	77	29	1·94	60	24	5·27	1,925	44	Jersey.

have been compared with Southampton: Worthing with St. Leonards and Southampton: Newton Rigg, Blackpool, Southport, and Prestwich with Stonyhurst: Hoylake and Rhyl with Torquay with Plymouth; Newquay with Falmouth: Guernsey with Jersey.
places, viz., Stonyhurst, Douglas, Dublin and Southport. New averages have been prepared from the records for the 10 years 1901–1910 computed by comparison with the Southport 15 years records by comparison with the records for Stonyhurst.

AVERAGES.

Averages are also contained in the following publications of the Meteorological Office :—

RAINFALL TABLES OF THE BRITISH ISLANDS 1866–1890 (No. 114) contains individual monthly and annual values and averages for 366 places for 1866–1880 and for 492 places for 1881–1890.

METEOROLOGICAL OBSERVATIONS AT STATIONS OF THE SECOND ORDER 1891 (Appendix I.) contains monthly and annual averages, for 15 years 1876–1890, of pressure, temperature, humidity, rainfall, amount of cloud, wind and weather for 12 stations.

TEMPERATURE TABLES OF THE BRITISH ISLANDS 1871–1900 (No. 154). Averages of maximum, minimum and mean temperature for each day of the year at Kew, Valencia, Aberdeen and Falmouth ; also monthly and annual averages and extreme values for 117 places.

APPENDIX I. TO THE DAILY WEATHER REPORT. Averages of pressure, temperature, rainfall and sunshine for 30 stations of the Daily Weather Report.

METEOROLOGICAL OBSERVATIONS AT STATIONS OF THE SECOND ORDER 1907 (Part II.) contains annual averages of pressure, temperature, humidity, rainfall, sunshine, amount of cloud, wind and weather for 55 places.

CALENDAR AND DIARY OF OPERATIONS (No. 213) contains weekly and monthly averages of temperature, rainfall and sunshine for the 12 districts of the Weekly Weather Report.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK (Part IV., Section 2, 1912) contains hourly averages for each month of pressure, temperature, humidity, wind velocity, rainfall and sunshine for the five observatories at Kew, Valencia, Aberdeen, Falmouth and Eskdalemuir.

NOTES

TEMPERATURE AND RAINFALL.—At certain stations the actual observations do not cover the whole period of 35 years. In those cases the year of commencement of the record is printed in brackets against the name of the stations in the extreme right hand column on each opening. The averages for these stations have been " weighted " to render them comparable with those for stations for which complete data are available. In a few cases in which satisfactory comparisons could not be made, the averages quoted are the unweighted ones for the years over which the records extend. The names of these stations are printed in italic type.

For details of the method by which the " weights " applied to the temperature tables have been arrived at, reference should be made to the Supplement to " Temperature Tables of the British Islands " (No. 154), published by authority of the Meteorological Council in 1902.

The " weights " applied in the case of the element rainfall have been arrived at by comparing the observed fall with that for a corresponding period at a neighbouring station, possessing records for 35 years, and assuming that, in the long run, the ratio of the amounts recorded at the two stations is constant. (*See Hann Lehrbuch der Meteorologie*, Ed. 1906, p. 243.) In nearly all cases in which " weights " have been applied, the simultaneous observations have extended over at least 10 years.

SUNSHINE.—The averages are for the 30-year period 1881–1910. In cases in which the records do not extend over the whole period, the averages derived from the actual observations are given, and below them are printed the " weighted " averages for the period of 30 years. The " weights " have been applied in a similar manner to that described under rainfall. All the records are from burning recorders of the Campbell-Stokes type.

The corrected values of sunshine (obtained by re-measuring the cards) for the ten years 1881–1890 have been used for the Observatories at Kew, Valencia, Falmouth, Aberdeen. *See* the Appendix to Hourly Means, 1891, Official No. 113.

UNITS.—The values of temperature are expressed in degrees Fahrenheit only. Tables for conversion into degrees of the Kelvin Absolute Scale are given in the introduction to Parts III. and IV. of the British Meteorological and Magnetic Year Book.

The values of rainfall are expressed in inches ; the contour lines on the monthly maps are drawn for every 10 or 20 millimetres.

The values of sunshine are expressed in hours per day, but the totals for the months are also given.

Meteorological Office,
London, S.W.
January 8th, 1915.

W. N. SHAW,
Director.